



Full wwPDB EM Validation Report ⓘ

Jul 29, 2024 – 12:48 PM JST

PDB ID : 8Y6Q
EMDB ID : EMD-38995
Title : Structure of the Dark/Dronc complex
Authors : Tian, L.; Li, Y.; Shi, Y.
Deposited on : 2024-02-03
Resolution : 7.00 Å (reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

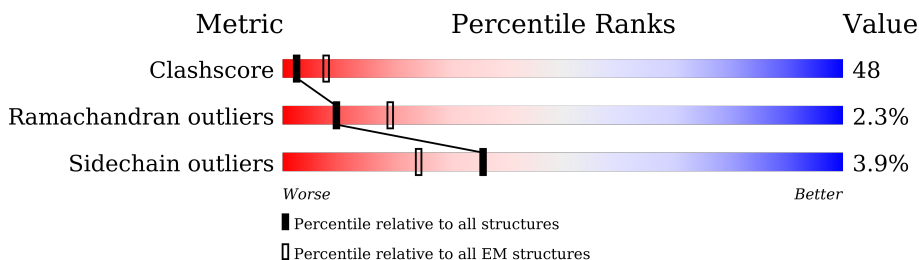
EMDB validation analysis : 0.0.1.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 7.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	H	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>25%</p> </div> <div style="text-align: center;"> <p>31%</p> </div> <div style="text-align: center;"> <p>51%</p> </div> <div style="text-align: center;"> <p>14%</p> </div> </div>
1	I	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>11%</p> </div> <div style="text-align: center;"> <p>31%</p> </div> <div style="text-align: center;"> <p>52%</p> </div> <div style="text-align: center;"> <p>13%</p> </div> </div>
1	J	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>10%</p> </div> <div style="text-align: center;"> <p>27%</p> </div> <div style="text-align: center;"> <p>54%</p> </div> <div style="text-align: center;"> <p>6%</p> </div> <div style="text-align: center;"> <p>13%</p> </div> </div>
1	K	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>9%</p> </div> <div style="text-align: center;"> <p>30%</p> </div> <div style="text-align: center;"> <p>55%</p> </div> <div style="text-align: center;"> <p>14%</p> </div> </div>
1	L	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>12%</p> </div> <div style="text-align: center;"> <p>30%</p> </div> <div style="text-align: center;"> <p>52%</p> </div> <div style="text-align: center;"> <p>13%</p> </div> </div>
1	M	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>11%</p> </div> <div style="text-align: center;"> <p>34%</p> </div> <div style="text-align: center;"> <p>50%</p> </div> <div style="text-align: center;"> <p>14%</p> </div> </div>
1	O	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>11%</p> </div> <div style="text-align: center;"> <p>33%</p> </div> <div style="text-align: center;"> <p>51%</p> </div> <div style="text-align: center;"> <p>14%</p> </div> </div>
1	Q	1237	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>23%</p> </div> <div style="text-align: center;"> <p>33%</p> </div> <div style="text-align: center;"> <p>48%</p> </div> <div style="text-align: center;"> <p>5%</p> </div> <div style="text-align: center;"> <p>14%</p> </div> </div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	A	102	<p>14% 36% 63%</p>
2	B	102	<p>9% 44% 56%</p>
2	C	102	<p>9% 40% 59%</p>
2	D	102	<p>5% 26% 74%</p>
2	E	102	<p>10% 41% 58%</p>
2	F	102	<p>36% 36% 64%</p>
2	G	102	<p>65% 43% 56%</p>
2	N	102	<p>8% 41% 58%</p>

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 75726 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Apaf-1 related killer DARK.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	H	1068	Total 8621	C 5529	N 1452	O 1593	S 47	0	0
1	J	1074	Total 8672	C 5562	N 1460	O 1603	S 47	0	0
1	L	1072	Total 8656	C 5553	N 1458	O 1598	S 47	0	0
1	M	1066	Total 8607	C 5522	N 1447	O 1591	S 47	0	0
1	O	1064	Total 8592	C 5511	N 1446	O 1588	S 47	0	0
1	Q	1066	Total 8608	C 5520	N 1450	O 1591	S 47	0	0
1	I	1072	Total 8658	C 5556	N 1457	O 1598	S 47	0	0
1	K	1064	Total 8592	C 5513	N 1445	O 1587	S 47	0	0

- Molecule 2 is a protein called Caspase Dronc.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	N	102	Total 840	C 522	N 160	O 152	S 6	0	0
2	A	102	Total 840	C 522	N 160	O 152	S 6	0	0
2	B	102	Total 840	C 522	N 160	O 152	S 6	0	0
2	C	102	Total 840	C 522	N 160	O 152	S 6	0	0
2	D	102	Total 840	C 522	N 160	O 152	S 6	0	0
2	E	102	Total 840	C 522	N 160	O 152	S 6	0	0
2	F	102	Total 840	C 522	N 160	O 152	S 6	0	0

Continued on next page...

Continued from previous page...

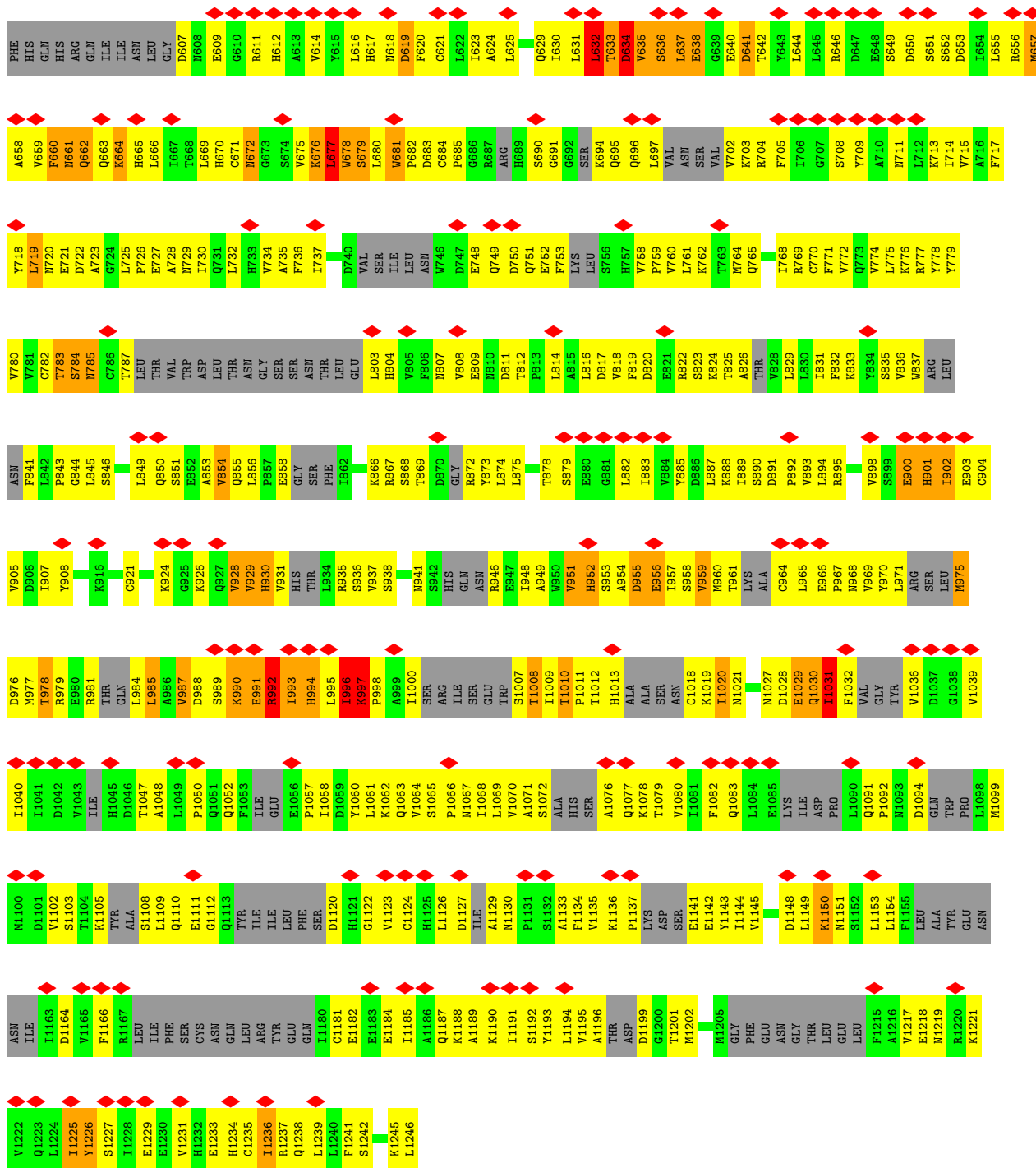
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	G	102	840	522	160	152	6	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Apaf-1 related killer DARK

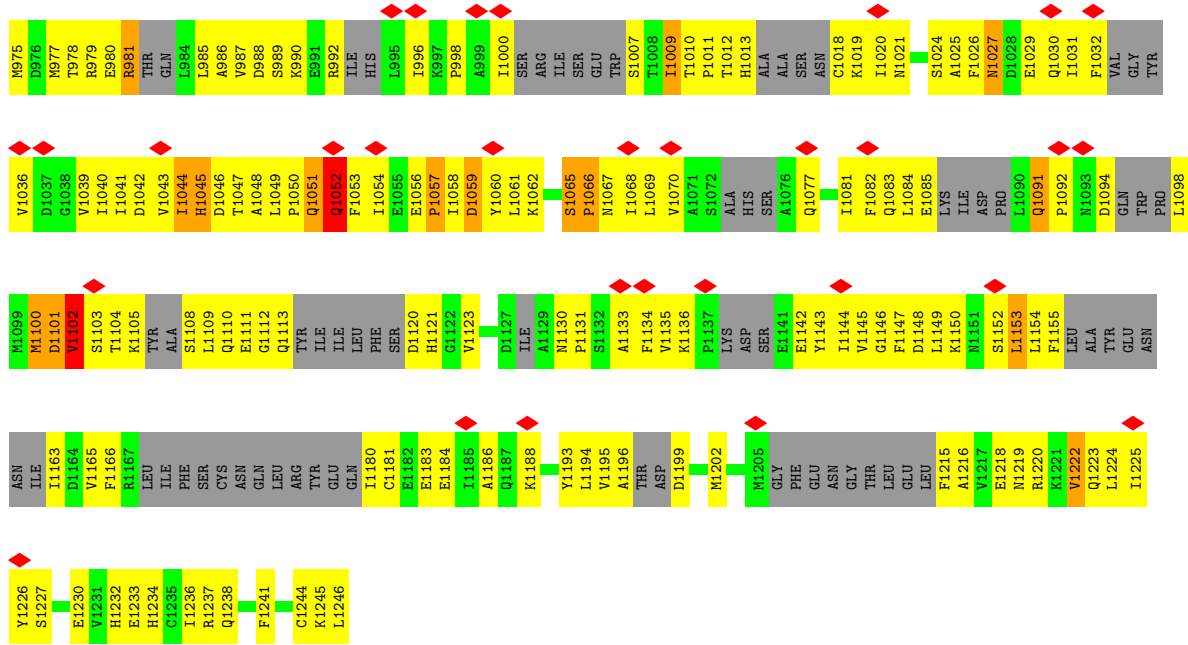




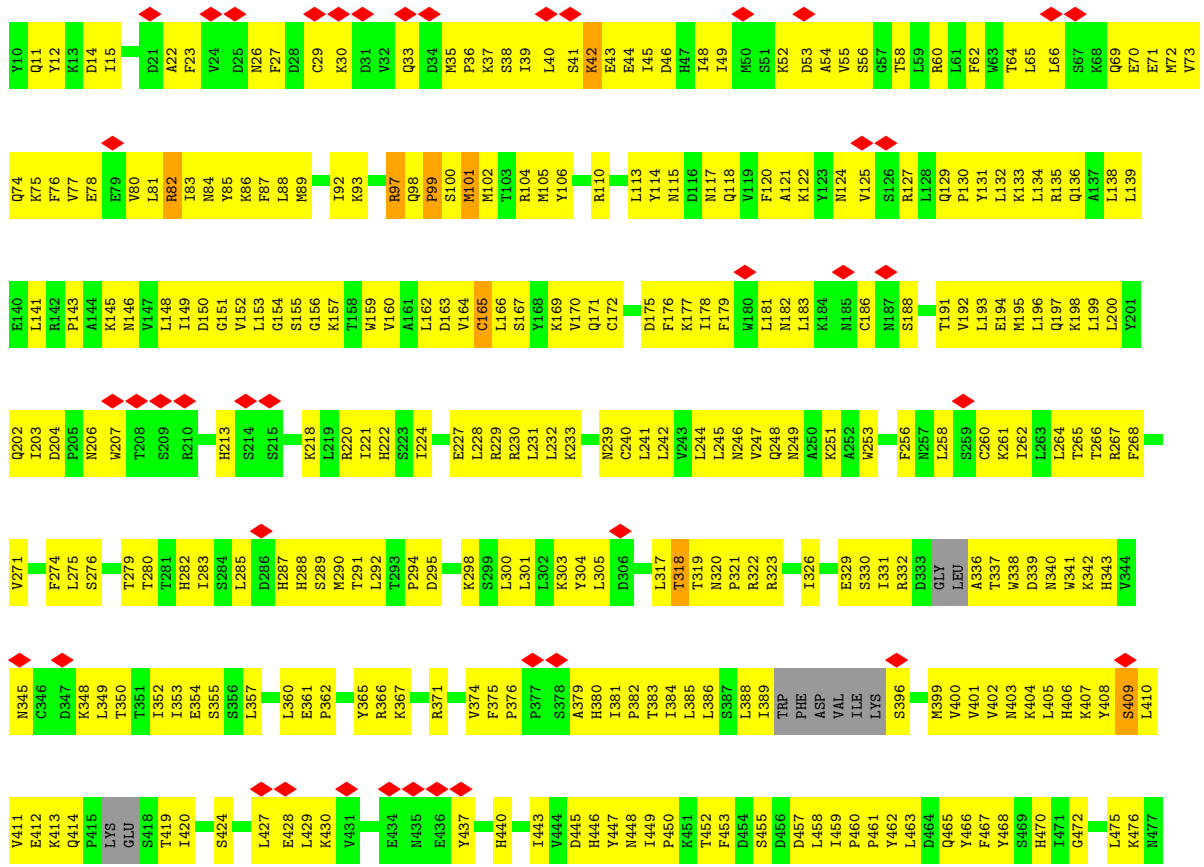
● Molecule 1: Apaf-1 related killer DARK

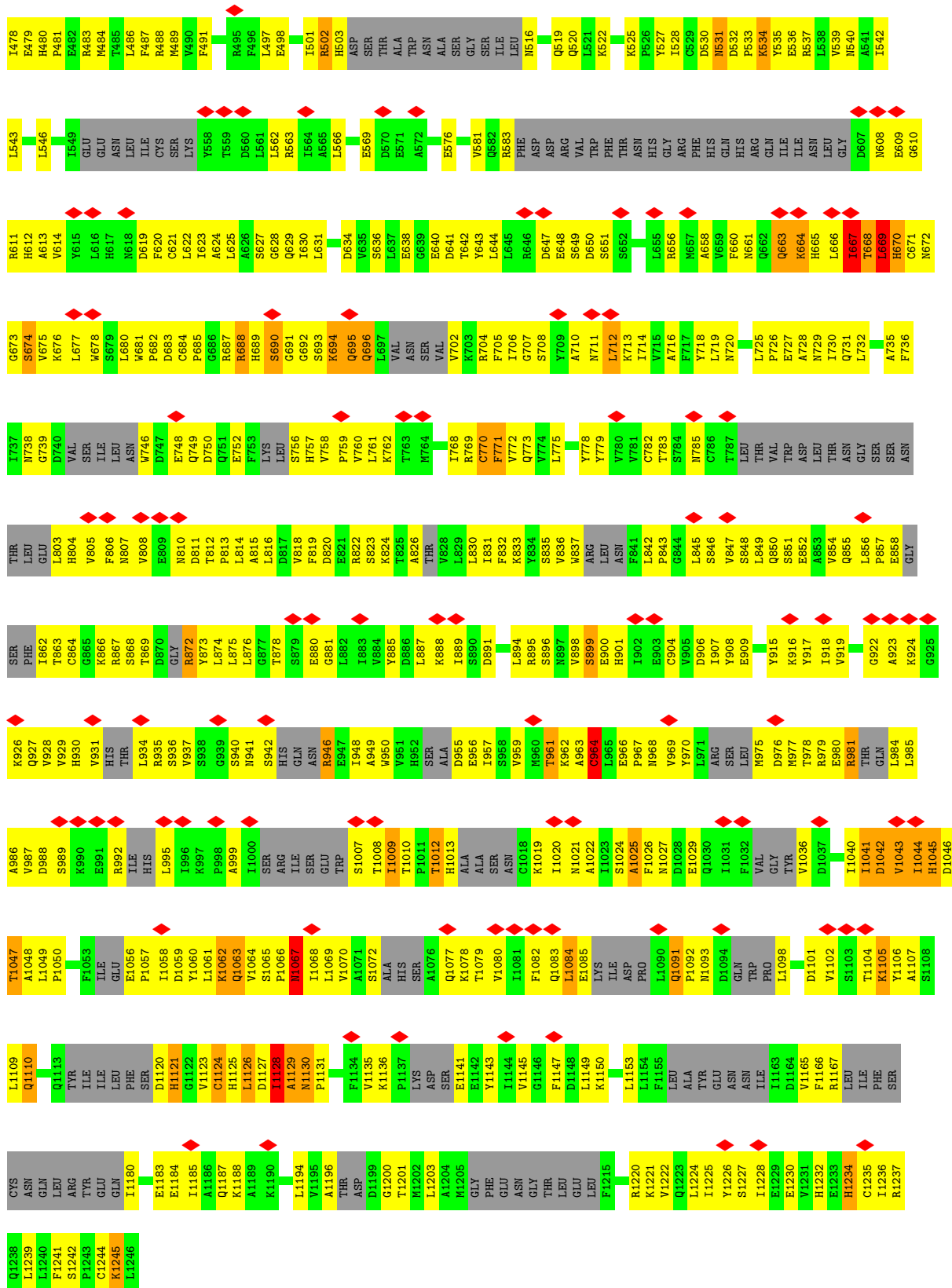


E79	V80	L81	R82	I83	N84	Y85	K86	F87	L88	M89	S90	P91	I92	K93	T94	E95	Q96	R97	Q98	P99	S100	M101	R104	M105	Y106	L107	I108	Q109	R110	D111	L112	L113	Y114	M115	D116	M117	Q118	V119	F120	A121	K122	Y123	N124	V125	S126	A127	L128	Q129	P130	P131	Y132	K133	L134	R135	A136	Q137	L138	
L139	E140	L141	R142	P143	A144	K145	M146	V147	L148	I149	V152	L153	G154	S155	G156	K157	T158	M159	V160	Q98	A161	L162	D163	V164	C165	L166	L231	L167	L168	K169	V170	Q171	C172	K173	M174	D175	F176	K177	I178	F179	V180	L181	M182	L183	K184	M187	S188	T191	V192	L193	E194	M195	L196	Q197	R198	L199	L200	Y201
Q202	I203	D204	W207	T208	S209	R210	S211	D212	H213	S214	S215	K218	L219	R220	H221	H222	M290	T291	S223	I224	L228	R229	R230	L231	L232	L233	S234	K235	L301	L302	Y237	E238	N239	C240	L241	L242	V243	L244	L245	V246	Q248	A250	K251	A252	W253	N254	A255	F256	N257	L258	S259	GLY	A336	L262	T265	T266		
R267	F268	K269	Q270	V271	T272	D273	S276	T279	T280	I283	S284	L285	D286	H287	H288	S289	M290	T291	S223	I224	L228	R229	R230	L231	L232	L233	S234	K235	L301	L302	Y237	E238	N239	C240	L241	L242	V243	L244	L245	V246	Q248	A250	K251	A252	W253	N254	A255	F256	N257	L258	S259	GLY	A336	L262	T265	T266		
D339	N340	W341	C345	N346	D347	K348	L349	T350	T351	L352	L353	E354	S355	S356	L357	N358	V359	L360	E361	P362	A363	E364	Y365	R366	K367	M368	F369	D370	R371	L372	S373	V374	F375	P376	P377	S378	A379	H380	I381	P382	T383	I384	L385	L386	S387	L388	I389	TRP	PHE	ASP	VAL	ILE	LYS	S396	V400	V401	V402	
M403	K404	L405	H406	K407	Y408	S409	L410	V411	E412	K413	Q414	P415	LYS	GLU	S418	T419	I420	S421	I422	P423	I425	Y426	L427	E428	L429	K430	V431	K432	L433	E434	M435	E436	Y437	A438	L439	H440	R441	S442	I443	V444	D445	H446	I449	P450	T452	F453	D456	L458	Y462	L463	D464	Q465	Y466					
F467	Y468	S469	H470	L471	H474	L475	K476	H477	L478	E479	P481	E482	R483	M484	T485	L486	F487	R488	M489	V490	F491	R495	F496	L497	E498	Q499	K500	L501	R502	H503	ASP	THR	ALA	TRP	ASN	ALA	S442	I443	V444	D445	H446	I449	P450	T452	F453	D456	L458	Y462	L463	D464	Q465	Y466						
D530	N531	D532	F533	K534	Y535	E536	R537	L538	I542	L543	L546	I549	GLU	GLU	D519	ASN	LEU	CYS	SER	LYS	F558	L562	L563	R567	D570	E571	A572	I573	E576	V581	U582	R583	PHE	ASP	ASP	ARG	VAL	TRP	PHE	THR	ASN	HIS	GLY	ARG	ARG	GLY	PHE	HIS	GLN	HIS	ARG	ARG	GLN	ILE				
I56	ASN	LEU	GLY	D607	M608	R611	H612	A613	G614	V615	L616	H617	M618	F620	C621	L622	L623	A624	L625	S627	G628	Q629	I630	L631	T633	D634	V635	S636	G639	E640	D641	T642	T643	L644	L645	R646	D647	E648	S649	D650	S651	S652	L655	M657	A658	V659	F660	N661	D662	Q663	K664	H665						
L666	I667	T668	L669	H670	C671	M672	G673	S674	V675	K676	L677	V678	S679	L680	W681	P682	D683	C684	P685	G686	R687	R688	H689	S690	G691	S692	R694	L695	VAL	L697	ASN	SER	V702	K703	R704	F705	I706	G707	S708	Y709	A710	M711	L712	K713	I714	V715	A716	F717	Y718	L719	N720	E721	D722	A723	L725			
F726	E727	A728	N729	I730	G731	L732	H733	V734	A735	F736	T737	N738	G739	D740	V741	S742	L743	L744	W745	D747	F748	Q749	D750	Q751	F752	L753	LYS	LEU	S756	H757	V758	P759	W760	L761	T762	M764	Q765	S766	G767	I768	R769	C770	F771	V772	L776	K777	Y778	Y779	V780	V781	C782	T783	S784	M785	C786			
T787	LEU	THR	VAL	TRP	ASP	LEU	THR	ASN	GLY	SER	ASN	THR	LEU	GLU	L803	H804	H805	F806	M807	W808	E809	D810	N811	T812	P813	L814	A815	D816	V817	F819	D820	E821	R822	S823	K824	A826	T825	H827	M828	L829	I831	R832	K833	Y834	S835	V836	W837	ARG	LEU	ASN	F841	L842	P843	G844	L845	S846		
V847	S848	L849	Q850	R851	E852	A853	W854	Q855	L856	P857	E858	GLY	SER	PHE	I862	T863	C864	G865	K866	R867	S868	T869	D870	V871	R872	Y873	L874	L875	L876	E880	G881	L882	I883	V884	Y885	D886	L887	K888	I889	S890	L894	R895	S896	N897	V898	E900	H901	E903	C904	V905	D906	Y907	T908	G909	S910	L910		
F911	D912	P913	V914	Y915	K916	Y917	V918	V919	L920	A923	K926	Q927	V928	V929	H930	V931	HIS	THR	L934	R935	S936	V937	S938	M841	S942	HIS	GLN	ASN	R946	E947	A949	W950	V951	R952	SER	ALA	D955	E956	V959	W960	P961	LYS	ALA	C964	L965	E966	P967	N968	V969	Y970	L971	ARG	SER	LEU				

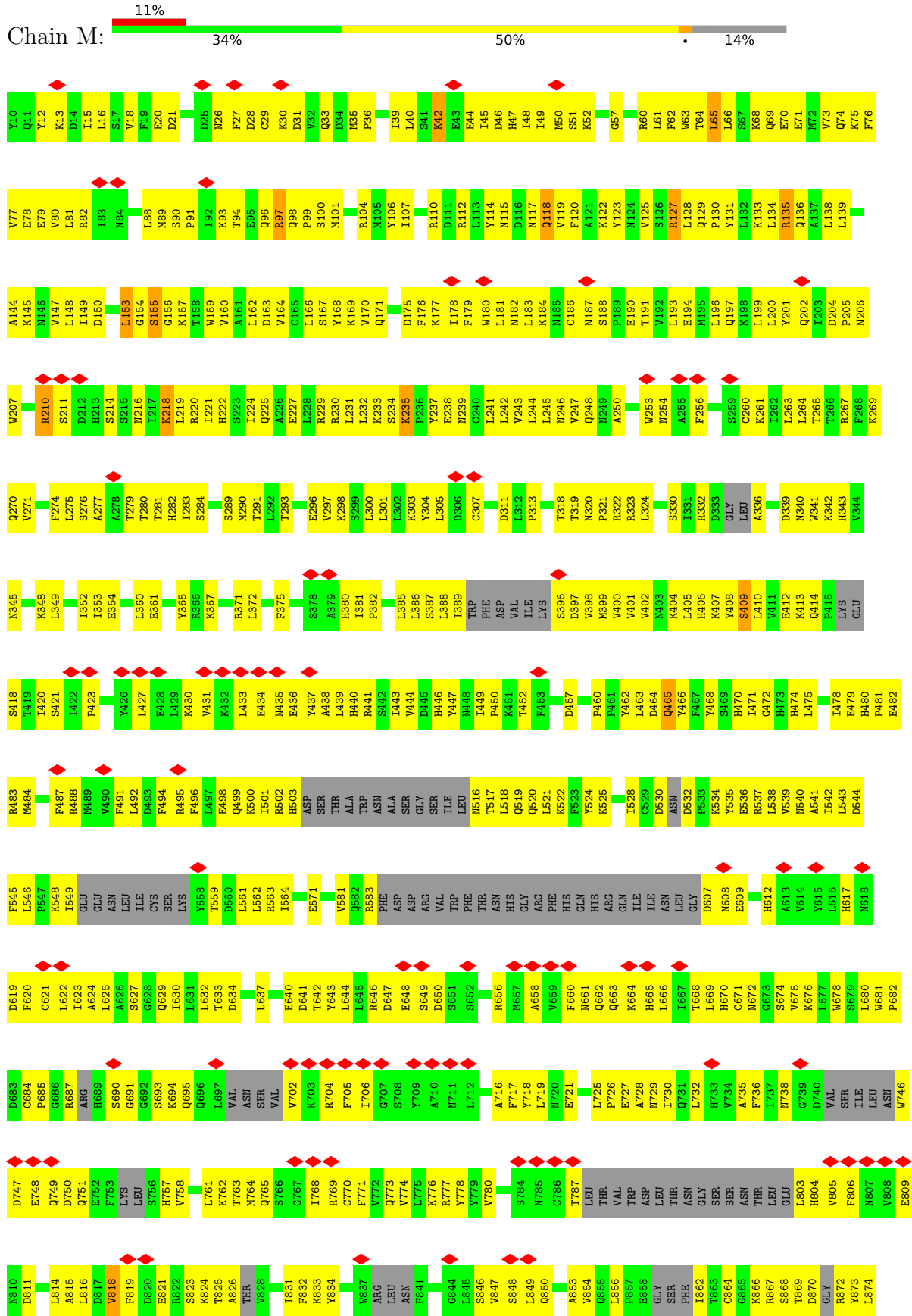


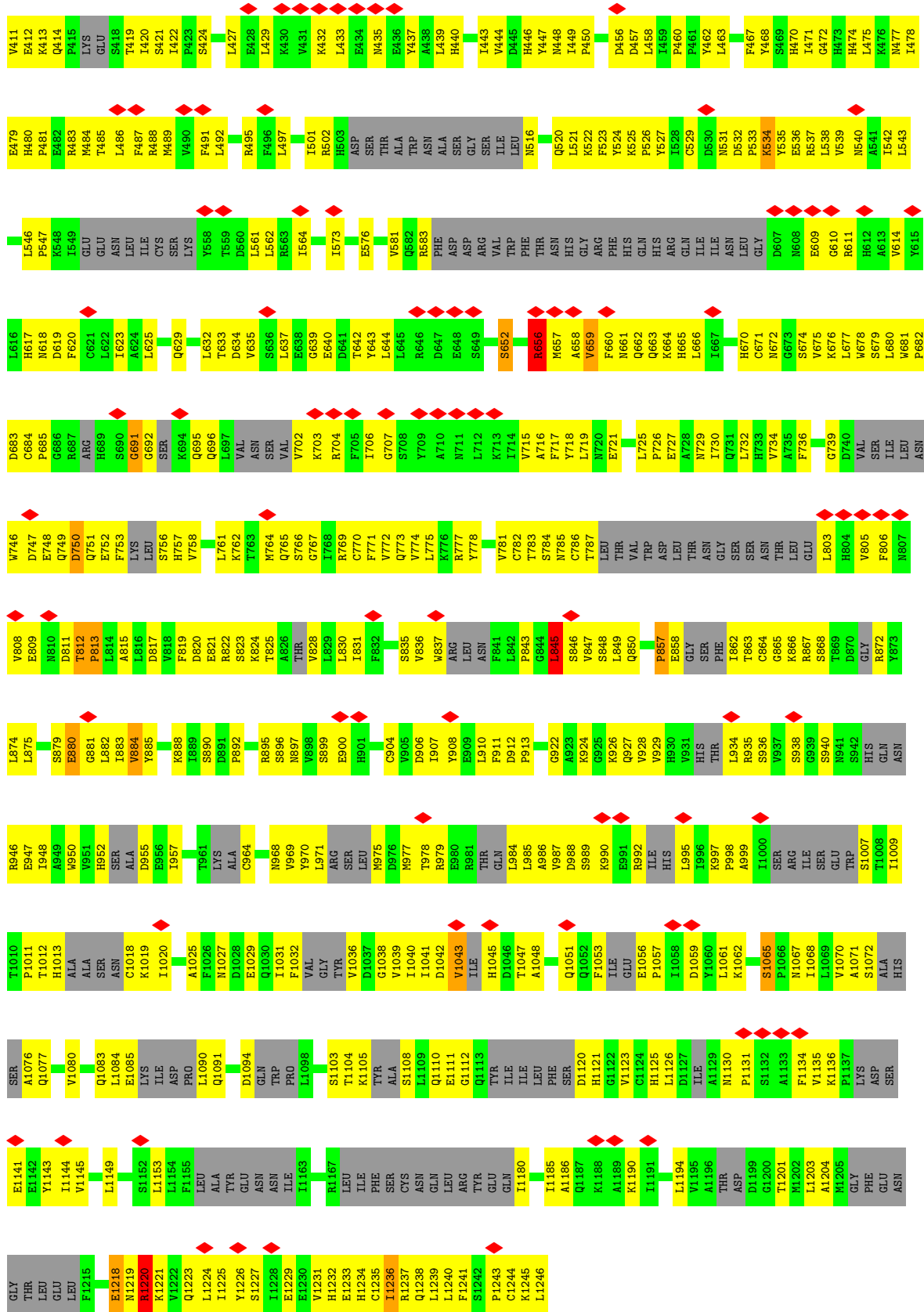
● Molecule 1: Apaf-1 related killer DARK



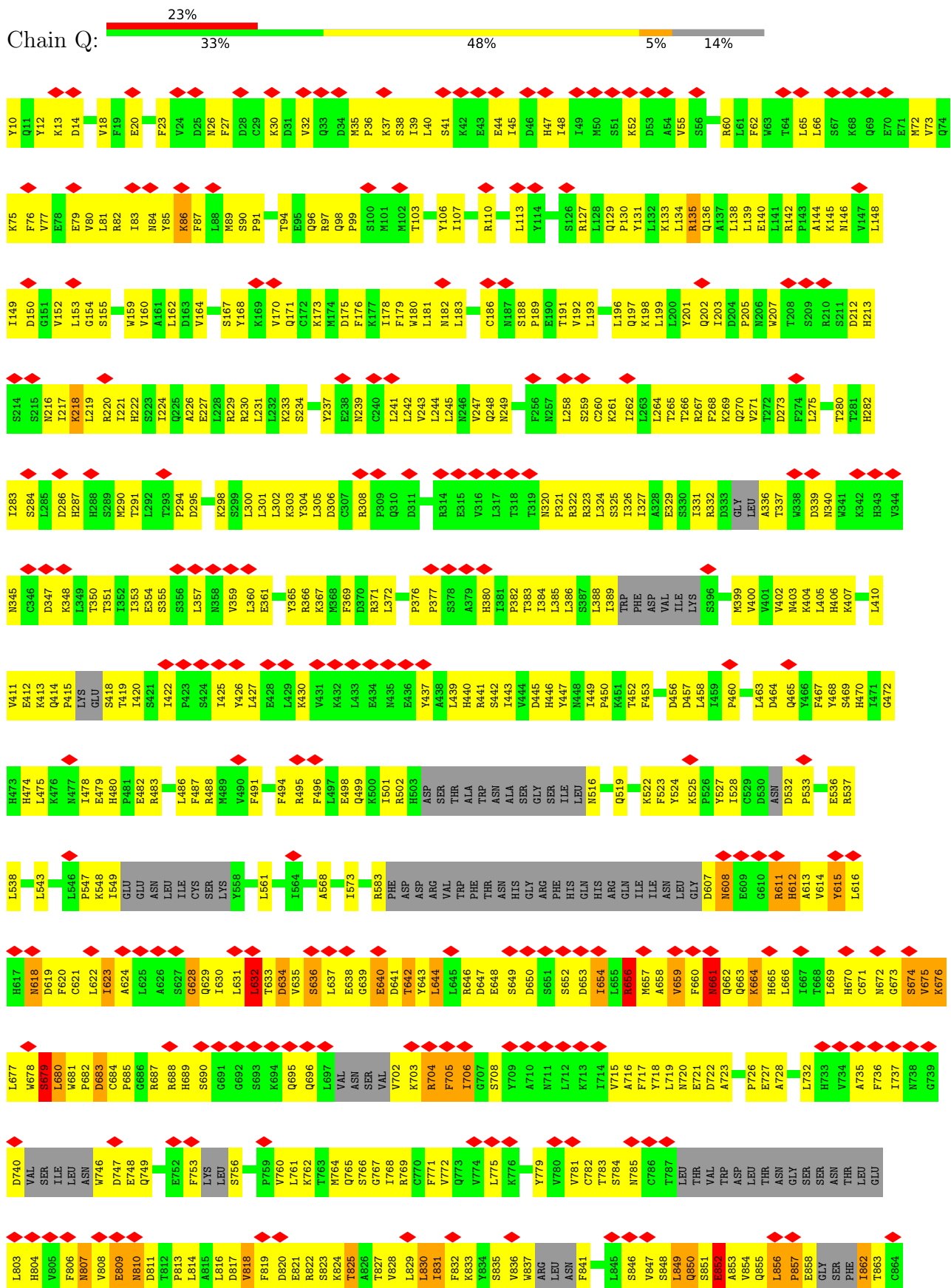


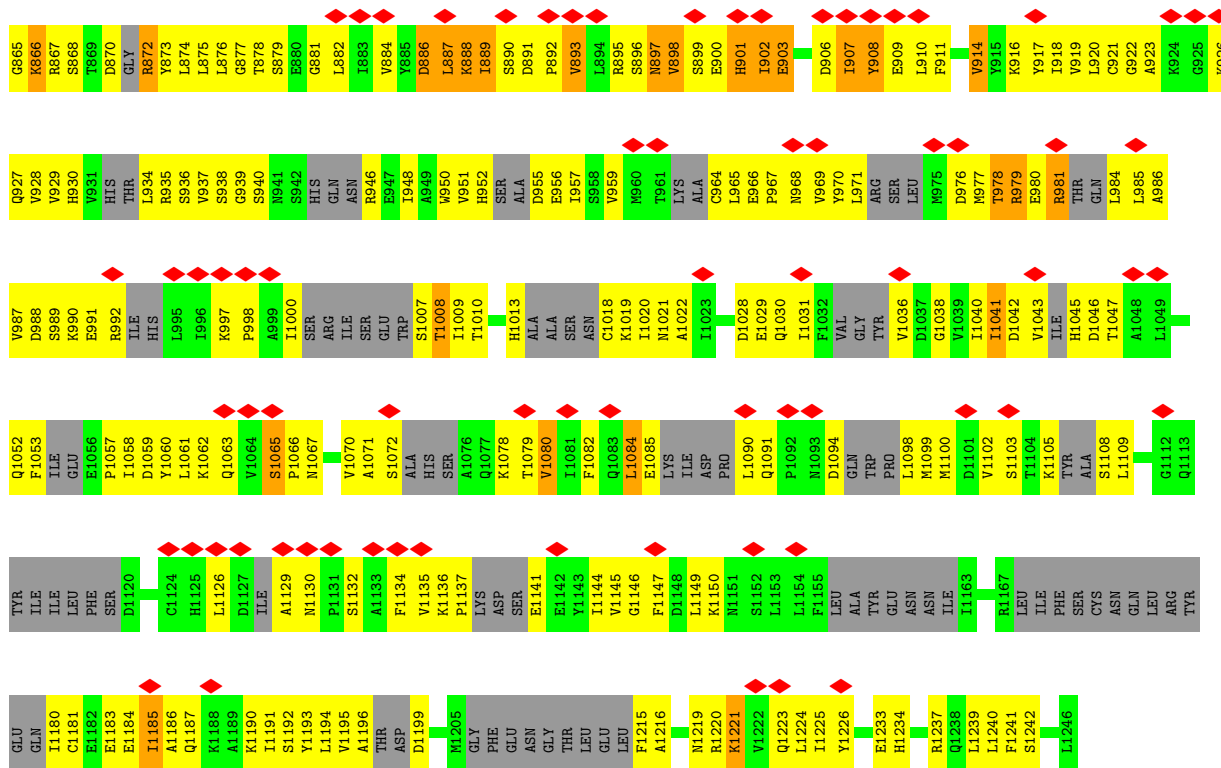
● Molecule 1: Apaf-1 related killer DARK



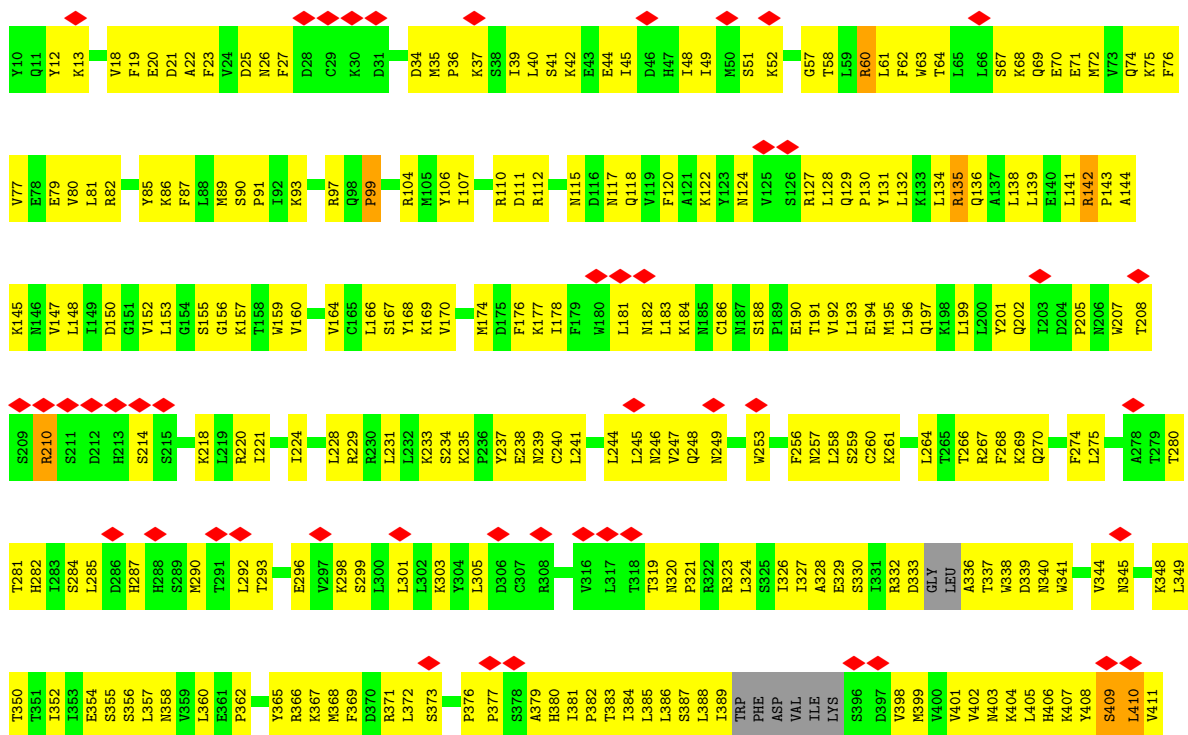


• Molecule 1: Apaf-1 related killer DARK





• Molecule 1: Apaf-1 related killer DARK

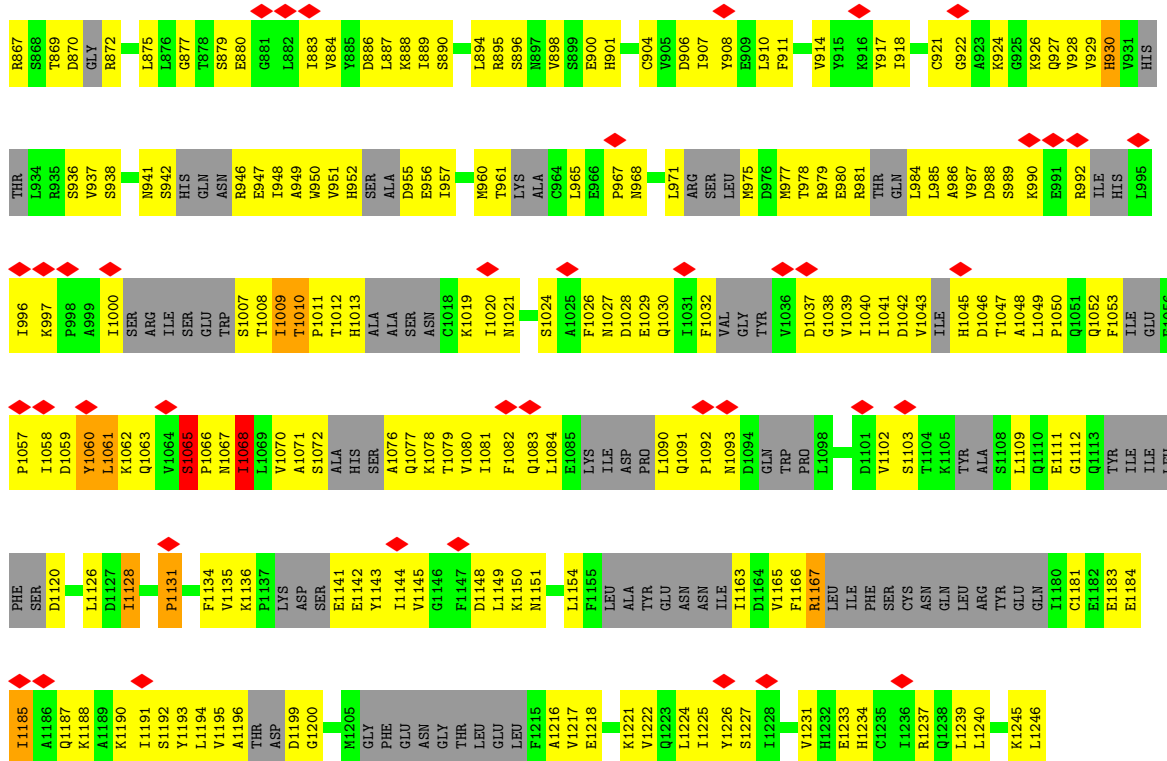


E412	K413	Q414	P415	LVS	S418	T419	I420	S421	M484	T485	I422	P423	S424	I425	Y426	L427	E428	K430	V431	K432	L433	E434	M435	E436	Y437	H440	I443	D445	H446	Y447	M448	I449	K450	K451	T452	E453	D454	S455	D456	D457	L458	I459	P460	L463	Q464	Y466	F467	Y468	S469	H470	I471	G472	H473	L476	K477	I478	E479	H480	P481	E482	M483	T485	L486	F487	R488	M489	F491	R495	L497	Q498	K500	I501	R502	H503	ASP	SER	THR	ALA	TRP	ASN	ASP	ALA	ARG	SER	GLY	SER	ILE	LEU	ASN	N516	Q519	Q520	L521	K522	Y524	K525	P526	Y527	I528	C529	D530	N531	D532	P533	K534	N608	G609	E609	G610	R611	V614	L538	V539	I542	L543	L549	GLU	L621	C622	N618	D619	F620	G621	I622	A624	L625	CYS	SER	LVS	Y558	T559	D560	L561	L562	I573	E576	K579	Q580	V581	Q582	R583	PHE	ASP	ASN	ASP	ALA	ARG	SER	GLY	TRP	THR	THR	ASN	ASN	HIS	GLY	ARG	A658	V659	F660	Q663	K664	H665	L666	I667	T668	L669	H670	C671	N672	G673	S674	V675	K676	L677	M678	S679	L680	P682	C683	D684	P685	G686	ARG	R687	G691	S692	S693	K694	Q695	Q696	L697	VAL	ASN	SER	VAL	V702	K703	D641	R704	F705	S708	Y709	A710	M711	L712	K713	I714	V715	A716	F717	Y718	L719	N720	E721	D722	L725	P726	E727	A728	N729	I730	Q731	L732	H733	V734	A735	F736	I737	N738	G739	D740	VAL	SER	ILE	LEU	ASN	TRP	R777	V780	V781	C782	T783	S784	N785	LEU	THR	THR	VAL	TRP	ASP	LEU	THR	ASN	GLY	SER	ASN	THR	LEU	PHE	L862	L803	H804	V805	S806	T807	V808	E809	N810	D811	T812	F813	L814	A815	L816	D817	V818	F819	D820	E821	R822	S823	K824	T825	A826	THR	V828	L829	L830	L831	F832	K833	Y834	S835	V836	M837	ARG	ASN	F841	L842	P843	L844	L845	S846	V847	S848	L849	Q850	S851	F852	A853	H854	Q855	L856	P857	E858	GLY	SER	PHE	L862	K866	R867	S868	T869	D870	GLY	R872	H873	L874	L875	L876	S877	L878	S879	E880	G881	L882	L883	D886	L887	K888	S890	V898	S899	E900	H901	I902	E903	D906	I907	Y908	D912	Y915	K916	Y919	L920	C921	G922	A923	K924	G925	K926	Q927	V928	V929	H930	I931	HIS	THR	L934	R935	S936	V937	S938	G939	S940	N941	S942	HIS	GLN	ASN	R946	E947	W950	V951	H952	S953	ALA	D955	T961	ALA	C964	EI029	QI030	I1031	F1032	VAL	GLY	TYR	V1036	D1037	G1038	V1039	I1040	I1041	R979	E980	V1043	ILE	H1045	L1046	L1049	P1050	Q1051	Q1052	F1053	ILE	GLY	E1056	P1057	I1058	D1059	V1060	L1061	K1062	O1063	V1064	S1065	P1066	M1067	I1068	L1069	V1070	A1071	S1072	ALA	HIS	SER	A1076	Q1077	K1078	F1082	Q1083	L1084	E1085	LVS	ILE	ASP	PRO	L1090	Q1091	P1092	M1093	D1094	GLN	TRP	PRO	M1100	D1101	V1102	S1103	T1104	K1105	Y1106	A1107	S1108	L1109	Q1110	E1111	G1112	Q1113	TYR	ILE	ILE	LEU	PHE	SER	D1120	P1057	H1121	G1122	I1123	C1124	A1186	H1125	Q1187	K1188	I1128	A1129	M1130	P1131	S1132	A1133	F1134	V1135	K1136	L1137	ASP	E1141	E1142	Y1143	I1144	V1145	G1146	F1147	D1148	L1149	K1150	L1153	L1154	F1155	A1216	E1218	M1219	R1220	K1221	V1222	I1225	Y1226	S1227	I1228	E1229	E1230	I1231	H1232	I1236	R1237	Q1238	L1239	L1240	F1241	S1242	K1245	L1246
------	------	------	------	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	------	------	------	------	------	------	------	------	------	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	------	------	------	------	------	------	------	------	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	------	------	------	------	------	------	------	------	------	------	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	-----	------	------	------	------	------	------	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----	-----	------	------	------	------	------	------	------	------	------	-----	-----	-----	------	------	------	------	------	------	-----	------	------	-----	------	-------	-------	-------	-------	-----	-----	-----	-------	-------	-------	-------	-------	-------	------	------	-------	-----	-------	-------	-------	-------	-------	-------	-------	-----	-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-----	-----	-----	-------	-------	-------	-------	-------	-------	-------	-----	-----	-----	-----	-------	-------	-------	-------	-------	-----	-----	-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-----	-----	-----	-----	-----	-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-----	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

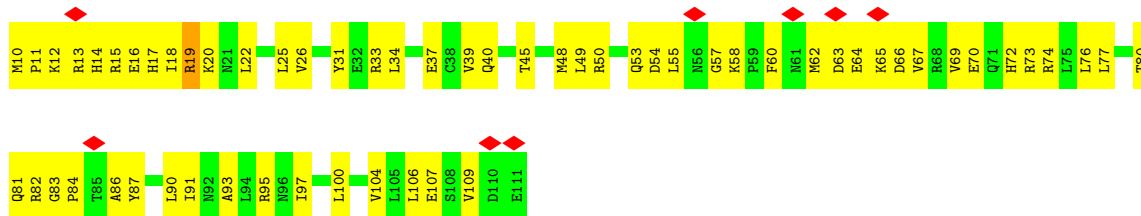
• Molecule 1: Apaf-1 related killer DARK



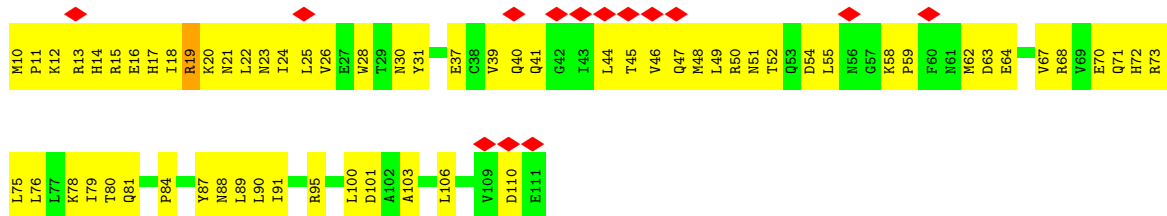
Y10	Q11	Y12	K13	D14	L15	L16	S17	V18	F19	E20	D21	A22	F23	V24	D25	D26	N27	F28	D29	D30	V31	Q32	Q33	Q34	K35	P36	K37	S38	I39	K40	E41	E42	H43	I44	M45	S51	D52	D53	A54	V55	S56	G57	T58	L59	R60	L61	T62	L63	L64	L65	L66	S67	R68	Q69	L70	L71	L72	L73	L74	L75	L76	L77	L78	L79	L80	L81	L82	L83	L84	L85	L86	L87	L88	L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100	L101	L102	L103	L104	L105	L106	L107	L108	L109	L110	L111	L112	L113	L114	L115	L116	L117	L118	L119	L120	L121	L122	L123	L124	L125	L126	L127	L128	L129	L130	L131	L132	L133	L134	L135	L136	L137	L138	L139	L140	L141	L142	L143	L144	L145	L146	L147	L148	L149	L150	L151	L152	L153	L154	L155	L156	L157	L158	L159	L160	L161	L162	L163	L164	L165	L166	L167	L168	L169	L170	L171	L172	L173	L174	L175	L176	L177	L178	L179	L180	L181	L182	L183	L184	L185	L186	L187	L188	L189	L190	L191	L192	L193	L194	L195	L196	L197	L198	L199	L200	L201	L202	L203	L204	L205	L206	L207	L208	L209	L210	L211	L212	L213	L214	L215	L216	L217	L218	L219	L220	L221	L222	L223	L224	L225	L226	L227	L228	L229	L230	L231	L232	L233	L234	L235	L236	L237	L238	L239	L240	L241	L242	L243	L244	L245	L246	L247	L248	L249	L250	L251	L252	L253	L254	L255	L256	L257	L258	L259	L260	L261	L262	L263	L264	L265	L266	L267	L268	L269	L270	L271	L272	L273	L274	L275	L276	L277	L278	L279	L280	L281	L282	L283	L284	L285	L286	L287	L288	L289	L290	L291	L292	L293	L294	L295	L296	L297	L298	L299	L300	L301	L302	L303	L304	L305	L306	L307	L308	L309	L310	L311	L312	L313	L314	L315	L316	L317	L318	L319	L320	L321	L322	L323	L324	L325	L326	L327	L328	L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340	L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400	L401	L402	L403	L404	L405	L406	L407	L408	L409	L410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	L421	L422	L423	L424	L425	L426	L427	L428	L429	L430	L431	L432	L433	L434	L435	L436	L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448	L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460	L461	L462	L463	L464	L465	L466	L467	L468	L469	L470	L471	L472	L473	L474	L475	L476	L477	L478	L479	L480	L481	L482	L483	L484	L485	L486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496	L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513	L514	L515	L516	L517	L518	L519	L520	L521	L522	L523	L524	L525	L526	L527	L528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568	L569	L570	L571	L572	L573	L574	L575	L576	L577	L578	L579	L580	L581	L582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592	L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604	L605	L606	L607	L608	L609	L610	L611	L612	L613	L614	L615	L616	L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628	L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------



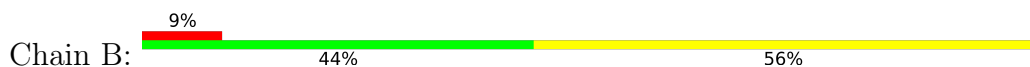
• Molecule 2: Caspase Dronc

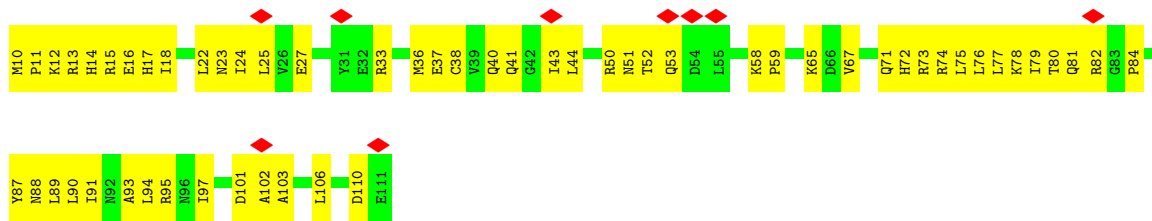


• Molecule 2: Caspase Dronc

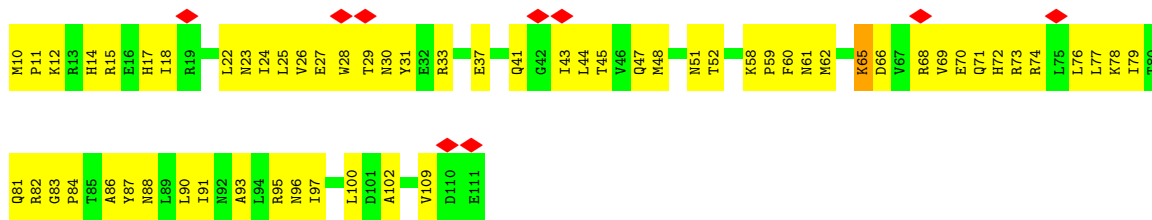


• Molecule 2: Caspase Dronc

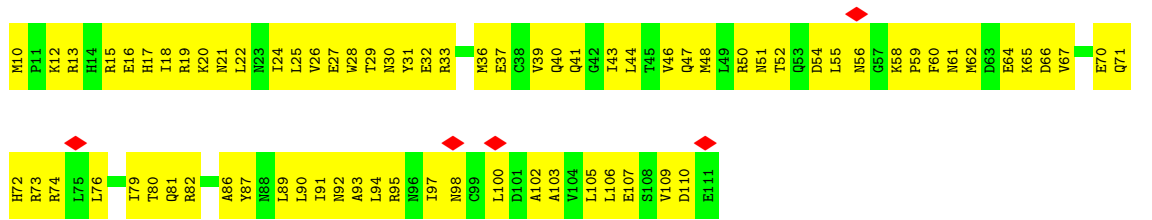




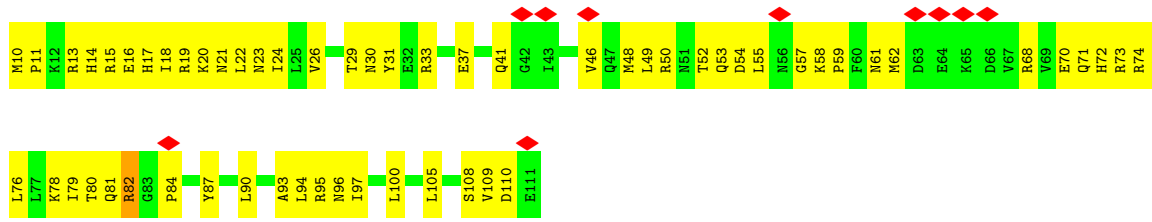
• Molecule 2: Caspase Dronc



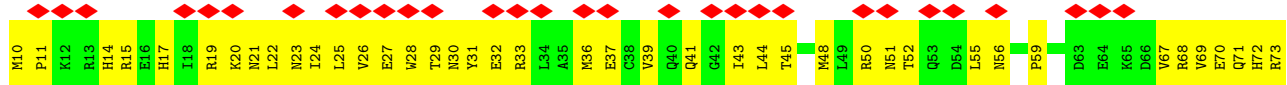
• Molecule 2: Caspase Dronc



• Molecule 2: Caspase Dronc

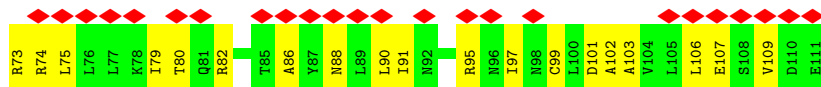
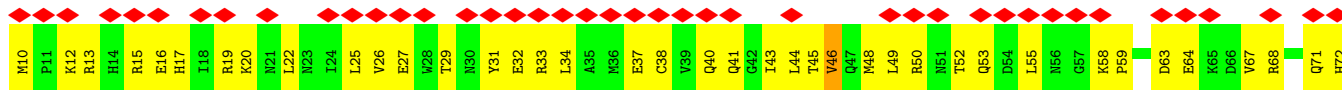
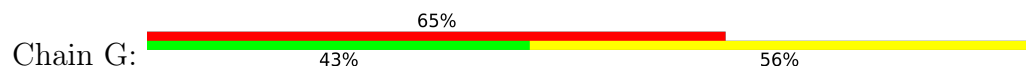


• Molecule 2: Caspase Dronc





- Molecule 2: Caspase Dronc



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	2710	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.530	Depositor
Minimum map value	-0.233	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.038	Depositor
Recommended contour level	0.18	Depositor
Map size (Å)	426.80002, 426.80002, 426.80002	wwPDB
Map dimensions	440, 440, 440	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.97, 0.97, 0.97	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	H	0.31	1/8768 (0.0%)	0.62	0/11830
1	I	0.29	0/8809	0.59	0/11890
1	J	0.32	0/8821	0.63	0/11907
1	K	0.31	0/8736	0.58	0/11783
1	L	0.30	0/8807	0.60	0/11888
1	M	0.30	0/8753	0.56	0/11808
1	O	0.30	0/8736	0.55	0/11783
1	Q	0.29	0/8754	0.61	0/11810
2	A	0.31	0/850	0.58	0/1146
2	B	0.25	0/850	0.52	0/1146
2	C	0.26	0/850	0.53	0/1146
2	D	0.28	0/850	0.57	0/1146
2	E	0.29	0/850	0.57	0/1146
2	F	0.25	0/850	0.53	0/1146
2	G	0.26	0/850	0.56	0/1146
2	N	0.25	0/850	0.54	0/1146
All	All	0.30	1/76984 (0.0%)	0.59	0/103867

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	661	ASN	C-N	9.35	1.55	1.34

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	H	8621	0	8600	980	0
1	I	8658	0	8647	834	0
1	J	8672	0	8665	1162	0
1	K	8592	0	8575	746	0
1	L	8656	0	8648	877	0
1	M	8607	0	8584	717	0
1	O	8592	0	8570	725	0
1	Q	8608	0	8591	863	0
2	A	840	0	863	68	0
2	B	840	0	863	50	0
2	C	840	0	863	53	0
2	D	840	0	863	69	0
2	E	840	0	863	60	0
2	F	840	0	863	66	0
2	G	840	0	863	60	0
2	N	840	0	863	63	0
All	All	75726	0	75784	7311	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 48.

All (7311) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:977:MET:SD	1:I:989:SER:HB2	1.36	1.66
1:L:964:CYS:SG	1:L:980:GLU:HA	1.43	1.57
1:J:620:PHE:CE2	1:J:662:GLN:HB2	1.42	1.54
1:J:620:PHE:CE1	1:J:887:LEU:HD11	1.44	1.52
1:Q:866:LYS:CD	1:Q:876:LEU:HB2	1.38	1.52
1:H:617:HIS:HB2	1:H:635:VAL:CG2	1.39	1.52
1:J:675:VAL:CB	1:J:702:VAL:HG21	1.40	1.50
1:H:997:LYS:HB3	1:H:998:PRO:CD	1.27	1.48
1:Q:979:ARG:CG	1:Q:985:LEU:HD23	1.43	1.48
1:J:620:PHE:CD1	1:J:887:LEU:HD11	1.48	1.46
1:L:685:PRO:CG	1:L:689:HIS:HB2	1.42	1.46
1:Q:866:LYS:HD2	1:Q:876:LEU:CB	1.42	1.45
1:L:625:LEU:CD1	1:L:669:LEU:HD21	1.44	1.44
1:J:675:VAL:HG11	1:J:702:VAL:CG1	1.49	1.41
1:Q:657:MET:HB2	1:Q:676:LYS:CD	1.49	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:814:LEU:CD2	1:J:823:SER:HB3	1.50	1.41
1:J:675:VAL:CG1	1:J:702:VAL:HG11	1.49	1.40
1:J:729:ASN:HB2	1:J:735:ALA:CA	1.50	1.40
1:O:656:ARG:CD	1:O:676:LYS:HE3	1.50	1.40
1:H:660:PHE:CB	1:H:677:LEU:HB2	1.53	1.38
1:H:930:HIS:HE1	1:H:1227:SER:CA	1.37	1.37
1:J:679:SER:HB2	1:J:702:VAL:N	1.34	1.37
1:Q:622:LEU:HD13	1:Q:665:HIS:NE2	1.36	1.37
1:L:685:PRO:HG3	1:L:689:HIS:CB	1.53	1.37
1:L:783:THR:HG22	1:L:822:ARG:NH2	1.37	1.36
1:M:761:LEU:HD12	1:M:804:HIS:ND1	1.37	1.36
1:J:475:LEU:HD21	1:J:486:LEU:CB	1.56	1.36
1:H:952:HIS:CA	1:H:990:LYS:HE2	1.55	1.36
1:O:523:PHE:CD1	1:O:527:TYR:HE2	1.43	1.35
1:L:483:ARG:NH1	1:L:531:ASN:HB3	1.38	1.35
1:Q:680:LEU:CG	1:Q:696:GLN:HB2	1.55	1.35
1:H:952:HIS:C	1:H:990:LYS:HE2	1.46	1.34
1:L:1062:LYS:CD	1:L:1066:PRO:HA	1.56	1.34
1:H:704:ARG:HB3	1:H:718:TYR:CD1	1.60	1.34
1:Q:825:THR:HG21	1:Q:829:LEU:C	1.48	1.34
1:L:1061:LEU:CD2	1:L:1091:GLN:HG2	1.59	1.33
1:J:714:ILE:CG2	1:J:730:ILE:HD12	1.59	1.32
1:J:1012:THR:HA	1:J:1053:PHE:CD2	1.66	1.31
1:O:637:LEU:HD11	1:O:658:ALA:N	1.45	1.31
1:H:484:MET:HE2	1:H:535:TYR:CZ	1.64	1.31
1:L:940:SER:HA	1:L:946:ARG:CD	1.58	1.31
1:H:660:PHE:CD1	1:H:677:LEU:HG	1.63	1.31
1:H:930:HIS:CE1	1:H:1227:SER:HA	1.66	1.30
1:H:1000:ILE:HG13	1:H:1020:ILE:CD1	1.61	1.30
1:O:523:PHE:HD1	1:O:527:TYR:CE2	1.50	1.30
1:H:617:HIS:CB	1:H:635:VAL:HG21	1.61	1.29
1:H:936:SER:CA	1:H:951:VAL:HG11	1.63	1.28
1:Q:657:MET:CB	1:Q:676:LYS:HD2	1.62	1.28
1:H:660:PHE:CG	1:H:677:LEU:HG	1.69	1.28
1:I:534:LYS:HE2	1:I:537:ARG:NH2	1.46	1.27
1:I:405:LEU:CB	1:I:410:LEU:HD21	1.64	1.27
1:O:845:LEU:HB2	1:O:858:GLU:C	1.54	1.26
1:I:977:MET:SD	1:I:989:SER:CB	2.24	1.26
1:J:813:PRO:CG	1:J:824:LYS:HB2	1.64	1.26
1:L:1061:LEU:HA	1:L:1066:PRO:CB	1.66	1.25
1:H:611:ARG:NH2	1:H:630:ILE:HD12	1.51	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:475:LEU:CD2	1:J:486:LEU:HB3	1.67	1.25
1:O:471:ILE:HG23	1:O:487:PHE:CZ	1.73	1.24
1:J:729:ASN:CB	1:J:735:ALA:HA	1.69	1.23
1:Q:888:LYS:CB	1:Q:898:VAL:HG12	1.66	1.23
1:J:761:LEU:HD11	1:J:817:ASP:OD2	1.34	1.23
1:J:620:PHE:CD2	1:J:662:GLN:HA	1.73	1.22
1:Q:657:MET:HB2	1:Q:676:LYS:CE	1.66	1.22
1:Q:807:ASN:ND2	1:Q:855:GLN:HE21	1.36	1.22
1:L:966:GLU:OE1	1:L:1009:ILE:HB	1.37	1.21
1:J:620:PHE:CD1	1:J:887:LEU:CD1	2.22	1.21
1:I:987:VAL:HG22	1:I:998:PRO:C	1.60	1.21
1:H:970:TYR:CE2	1:H:1011:PRO:HA	1.75	1.21
1:H:930:HIS:CE1	1:H:1227:SER:HB2	1.75	1.20
1:I:405:LEU:HB3	1:I:410:LEU:CD2	1.70	1.20
1:K:73:VAL:O	1:K:77:VAL:HG12	1.36	1.20
1:H:476:LYS:HE3	1:H:529:CYS:SG	1.81	1.20
1:K:60:ARG:O	1:K:64:THR:HG23	1.41	1.20
1:K:1049:LEU:HB2	1:K:1061:LEU:CD1	1.70	1.20
1:O:656:ARG:CD	1:O:676:LYS:CE	2.20	1.20
1:O:1219:ASN:HB2	1:O:1238:GLN:OE1	1.39	1.20
1:J:718:TYR:CE1	1:J:728:ALA:HB3	1.77	1.19
1:Q:621:CYS:SG	1:Q:898:VAL:HG13	1.82	1.19
1:H:1000:ILE:CG1	1:H:1020:ILE:HD11	1.70	1.19
1:H:630:ILE:HG22	1:H:632:LEU:CD2	1.72	1.19
1:J:675:VAL:CG1	1:J:702:VAL:HG21	1.73	1.19
1:J:813:PRO:O	1:J:823:SER:HA	1.40	1.19
1:H:936:SER:HA	1:H:951:VAL:CG1	1.71	1.18
1:O:475:LEU:HD12	1:O:487:PHE:CE1	1.75	1.18
1:K:1057:PRO:HA	1:K:1070:VAL:O	1.41	1.18
1:J:675:VAL:HG11	1:J:702:VAL:CB	1.73	1.18
1:J:697:LEU:HB3	1:J:722:ASP:OD2	1.43	1.18
1:O:1219:ASN:HB2	1:O:1238:GLN:CD	1.63	1.18
1:Q:888:LYS:CD	1:Q:898:VAL:HG11	1.72	1.18
1:I:968:ASN:HB2	1:I:990:LYS:CG	1.73	1.18
1:H:936:SER:CB	1:H:953:SER:HB3	1.74	1.17
1:Q:664:LYS:CD	1:Q:681:TRP:HZ2	1.57	1.17
1:H:476:LYS:CE	1:H:529:CYS:SG	2.31	1.17
1:H:997:LYS:CB	1:H:998:PRO:CD	2.19	1.17
1:Q:979:ARG:CG	1:Q:985:LEU:CD2	2.20	1.17
1:J:751:GLN:O	1:J:759:PRO:HD3	1.43	1.17
1:H:484:MET:HE1	1:H:535:TYR:CE1	1.80	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:989:SER:CB	1:H:994:HIS:HA	1.73	1.17
1:O:525:LYS:HG3	1:O:526:PRO:HD3	1.23	1.16
1:H:952:HIS:O	1:H:991:GLU:HB3	1.45	1.16
1:Q:887:LEU:HD12	1:Q:909:GLU:OE2	1.45	1.16
1:I:532:ASP:HB2	1:I:533:PRO:CD	1.71	1.16
1:H:930:HIS:CE1	1:H:1227:SER:CB	2.29	1.15
1:J:488:ARG:HG3	1:J:491:PHE:HB2	1.24	1.15
1:Q:888:LYS:HD3	1:Q:898:VAL:HG11	1.25	1.15
1:J:620:PHE:CE2	1:J:662:GLN:CB	2.29	1.15
1:L:483:ARG:HH12	1:L:531:ASN:CB	1.59	1.15
1:I:684:CYS:SG	1:I:691:GLY:HA3	1.87	1.15
1:H:952:HIS:HA	1:H:990:LYS:CE	1.77	1.14
1:J:1012:THR:HA	1:J:1053:PHE:CE2	1.82	1.14
1:L:1009:ILE:CD1	1:L:1020:ILE:HA	1.76	1.14
1:M:630:ILE:HG13	1:M:644:LEU:HD23	1.30	1.14
1:I:987:VAL:HG22	1:I:999:ALA:N	1.61	1.14
1:L:685:PRO:CG	1:L:689:HIS:H	1.60	1.14
1:J:813:PRO:HG3	1:J:824:LYS:CB	1.76	1.14
1:L:783:THR:HG22	1:L:822:ARG:CZ	1.77	1.14
1:Q:979:ARG:HG2	1:Q:985:LEU:HD23	1.26	1.14
1:H:854:VAL:CG1	1:H:868:SER:HA	1.76	1.13
1:L:1062:LYS:N	1:L:1066:PRO:HB3	1.64	1.13
1:M:1062:LYS:O	1:M:1105:LYS:HE2	1.44	1.13
1:L:1007:SER:HB2	1:L:1021:ASN:ND2	1.64	1.13
1:K:1049:LEU:CB	1:K:1061:LEU:HD12	1.78	1.13
1:H:997:LYS:CB	1:H:998:PRO:HD3	1.79	1.13
1:H:660:PHE:HB2	1:H:677:LEU:CB	1.77	1.13
1:J:675:VAL:HB	1:J:702:VAL:HG21	1.20	1.13
1:K:1068:ILE:HG21	1:K:1080:VAL:HA	1.18	1.13
1:O:656:ARG:CG	1:O:676:LYS:HE3	1.79	1.12
1:L:940:SER:HB3	1:L:967:PRO:HB3	1.17	1.12
1:L:964:CYS:SG	1:L:980:GLU:CA	2.36	1.12
1:H:977:MET:CB	1:H:1009:ILE:HD12	1.78	1.12
1:H:997:LYS:HB3	1:H:998:PRO:HD2	1.16	1.12
1:I:525:LYS:HG3	1:I:526:PRO:HD3	1.30	1.12
1:J:814:LEU:HD23	1:J:823:SER:HB3	1.28	1.12
1:O:472:GLY:HA2	1:O:487:PHE:CZ	1.84	1.12
1:I:990:LYS:HD2	1:I:1011:PRO:HD3	1.30	1.12
1:L:666:LEU:HD22	1:L:707:GLY:HA3	1.17	1.11
1:L:1061:LEU:CA	1:L:1066:PRO:HB3	1.79	1.11
1:J:716:ALA:HB3	1:J:718:TYR:CE1	1.84	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:769:ARG:HH22	1:Q:824:LYS:HB3	1.14	1.11
1:Q:680:LEU:CD1	1:Q:696:GLN:HB2	1.80	1.11
1:H:617:HIS:CB	1:H:635:VAL:CG2	2.25	1.11
1:Q:888:LYS:HB3	1:Q:898:VAL:CG1	1.79	1.11
1:M:1109:LEU:HB3	1:M:1130:ASN:HD22	1.03	1.10
1:M:1049:LEU:HD12	1:M:1061:LEU:HD22	1.26	1.10
1:Q:979:ARG:HG3	1:Q:985:LEU:HD23	1.18	1.10
1:I:977:MET:HB2	1:I:990:LYS:N	1.66	1.10
1:H:660:PHE:CD1	1:H:677:LEU:CG	2.34	1.10
1:H:719:LEU:HD23	1:H:751:GLN:HG3	1.31	1.10
1:J:743:ILE:HB	1:J:775:LEU:HD21	1.34	1.10
1:I:968:ASN:HB2	1:I:990:LYS:HG2	1.26	1.10
1:I:1083:GLN:HE22	1:I:1085:GLU:HB3	1.02	1.10
1:H:975:MET:HA	1:H:988:ASP:O	1.51	1.10
1:J:768:ILE:CG2	1:J:780:VAL:HG13	1.82	1.10
1:J:768:ILE:HG22	1:J:780:VAL:HA	1.10	1.10
1:O:845:LEU:CB	1:O:858:GLU:C	2.20	1.10
1:H:484:MET:CE	1:H:535:TYR:CZ	2.34	1.09
1:H:975:MET:CE	1:H:996:ILE:HG21	1.82	1.09
1:J:813:PRO:CG	1:J:824:LYS:CB	2.30	1.09
1:L:449:ILE:HG23	1:L:450:PRO:HD3	1.16	1.09
1:K:1043:VAL:HB	1:K:1062:LYS:HG2	1.11	1.09
1:J:808:VAL:CG2	1:J:853:ALA:H	1.66	1.09
1:J:813:PRO:CD	1:J:824:LYS:H	1.65	1.09
1:L:625:LEU:HD12	1:L:669:LEU:HD21	1.27	1.09
1:O:483:ARG:HE	1:O:531:ASN:HB3	1.15	1.09
1:Q:888:LYS:HZ2	1:Q:888:LYS:HA	1.00	1.09
1:H:614:VAL:CG2	1:H:633:THR:HG22	1.83	1.09
1:L:663:GLN:HG3	1:L:674:SER:HA	1.19	1.09
1:M:1106:TYR:HE2	1:M:1109:LEU:HD12	1.15	1.09
1:O:659:VAL:HG23	1:O:677:LEU:HD12	1.13	1.09
1:H:975:MET:HE2	1:H:996:ILE:HG21	1.12	1.09
1:I:90:SER:OG	1:I:91:PRO:HD3	1.49	1.09
1:H:617:HIS:CA	1:H:635:VAL:HG21	1.83	1.08
1:H:1185:ILE:HD13	1:H:1225:ILE:HA	1.30	1.08
1:J:768:ILE:HG21	1:J:780:VAL:HG13	1.32	1.08
1:H:630:ILE:HG22	1:H:632:LEU:HD23	1.24	1.08
1:Q:680:LEU:HG	1:Q:696:GLN:CB	1.83	1.08
1:H:1019:LYS:HB2	1:H:1029:GLU:HB3	1.28	1.08
1:K:929:VAL:HG11	1:K:971:LEU:HB3	1.34	1.08
1:H:975:MET:HG2	1:H:993:ILE:HG22	1.27	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:940:SER:HA	1:L:946:ARG:HD2	1.12	1.08
1:M:61:LEU:O	1:M:65:LEU:HD23	1.53	1.08
1:J:706:ILE:O	1:J:716:ALA:HB1	1.50	1.08
1:J:813:PRO:HD2	1:J:824:LYS:H	0.95	1.08
1:L:940:SER:HB2	1:L:946:ARG:NH1	1.66	1.08
1:L:1061:LEU:HA	1:L:1066:PRO:HB3	1.23	1.08
1:L:1062:LYS:HD2	1:L:1066:PRO:CA	1.82	1.08
1:I:1084:LEU:CD1	1:I:1105:LYS:HB2	1.83	1.08
1:Q:664:LYS:HD3	1:Q:681:TRP:CZ2	1.89	1.07
1:J:620:PHE:CE1	1:J:887:LEU:CD1	2.35	1.07
1:M:761:LEU:HD12	1:M:804:HIS:CG	1.90	1.07
1:O:656:ARG:HD3	1:O:676:LYS:HE3	1.29	1.07
1:H:997:LYS:HB3	1:H:998:PRO:HD3	1.11	1.07
1:J:706:ILE:HD12	1:J:717:PHE:O	1.55	1.07
1:L:940:SER:CB	1:L:967:PRO:HB3	1.83	1.07
1:H:656:ARG:NH1	1:H:680:LEU:HD12	1.70	1.07
1:H:682:PRO:HA	1:H:694:LYS:HD3	1.34	1.07
1:L:449:ILE:CG2	1:L:450:PRO:HD3	1.83	1.07
1:Q:659:VAL:HG21	1:Q:678:TRP:CZ3	1.90	1.07
1:K:987:VAL:O	1:K:996:ILE:HA	1.54	1.07
1:I:1018:CYS:O	1:I:1029:GLU:HA	1.54	1.06
1:H:704:ARG:CB	1:H:718:TYR:HD1	1.68	1.06
1:K:1131:PRO:HD2	1:K:1145:VAL:O	1.55	1.06
1:H:719:LEU:CD2	1:H:751:GLN:HG3	1.85	1.06
1:J:806:PHE:CE1	1:J:813:PRO:HB3	1.91	1.06
1:Q:657:MET:HB2	1:Q:676:LYS:HD2	1.08	1.06
1:H:952:HIS:HA	1:H:990:LYS:HE2	1.30	1.05
1:J:757:HIS:CE1	1:J:778:TYR:CE2	2.44	1.05
1:J:978:THR:HG21	1:J:986:ALA:HB3	1.29	1.05
1:L:940:SER:HB2	1:L:946:ARG:HH11	0.93	1.05
1:M:1109:LEU:HB3	1:M:1130:ASN:ND2	1.71	1.05
1:I:968:ASN:HB3	1:I:990:LYS:HE3	1.38	1.05
1:I:990:LYS:HD3	1:I:1011:PRO:CG	1.85	1.05
1:M:1049:LEU:HB2	1:M:1061:LEU:HB3	1.37	1.05
1:H:854:VAL:HG13	1:H:868:SER:HA	1.36	1.05
1:H:930:HIS:NE2	1:H:1227:SER:HB2	1.71	1.05
1:J:714:ILE:HG21	1:J:730:ILE:HD12	1.07	1.05
1:L:625:LEU:CG	1:L:669:LEU:HD21	1.86	1.05
1:I:977:MET:HB2	1:I:990:LYS:H	0.91	1.05
1:H:719:LEU:HD23	1:H:751:GLN:CG	1.87	1.05
1:M:153:LEU:HD11	1:M:320:ASN:ND2	1.70	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:523:PHE:CD1	1:O:527:TYR:CE2	2.34	1.05
1:H:1009:ILE:HG21	1:H:1018:CYS:SG	1.97	1.04
1:J:675:VAL:CB	1:J:702:VAL:CG2	2.35	1.04
1:J:807:ASN:HB2	1:J:812:THR:HG23	1.31	1.04
1:Q:675:VAL:HG12	1:Q:681:TRP:CD1	1.92	1.04
1:K:1029:GLU:HB2	1:K:1038:GLY:O	1.56	1.04
1:K:1066:PRO:HB3	1:K:1082:PHE:HA	1.05	1.04
1:J:781:VAL:HG13	1:J:822:ARG:NH1	1.70	1.04
1:J:808:VAL:HG21	1:J:853:ALA:H	1.19	1.04
1:J:814:LEU:HD21	1:J:823:SER:HB3	1.40	1.04
1:H:954:ALA:N	1:H:990:LYS:HZ1	1.55	1.04
1:Q:888:LYS:HB3	1:Q:898:VAL:HG12	1.08	1.04
1:L:757:HIS:HA	1:L:772:VAL:HG23	1.39	1.03
1:I:986:ALA:O	1:I:999:ALA:HB2	1.58	1.03
1:H:484:MET:CE	1:H:535:TYR:CE1	2.41	1.03
1:J:830:LEU:HD23	1:J:830:LEU:H	1.23	1.03
1:H:660:PHE:CB	1:H:676:LYS:HB2	1.87	1.03
1:J:675:VAL:HG11	1:J:702:VAL:CG2	1.88	1.03
1:J:704:ARG:HH11	1:J:749:GLN:HG3	1.20	1.03
1:J:965:LEU:HD23	1:J:981:ARG:CZ	1.88	1.02
1:L:1062:LYS:HD2	1:L:1066:PRO:HA	1.07	1.02
1:Q:640:GLU:H	1:Q:652:SER:HA	1.18	1.02
1:H:1009:ILE:CG2	1:H:1018:CYS:SG	2.48	1.02
1:L:940:SER:CA	1:L:946:ARG:HD2	1.90	1.02
1:O:481:PRO:HA	1:O:484:MET:CE	1.89	1.02
1:I:1084:LEU:HD13	1:I:1105:LYS:CB	1.89	1.02
1:I:1084:LEU:HD13	1:I:1105:LYS:HB2	1.04	1.02
1:H:614:VAL:HG21	1:H:633:THR:HG22	1.03	1.02
1:H:987:VAL:CG2	1:H:996:ILE:HG23	1.89	1.02
1:H:989:SER:HB2	1:H:994:HIS:HA	1.07	1.02
1:L:663:GLN:OE1	1:L:674:SER:HB3	1.59	1.02
1:L:1009:ILE:HD13	1:L:1020:ILE:HA	1.38	1.02
1:M:1106:TYR:CD2	1:M:1109:LEU:HA	1.95	1.02
1:H:977:MET:HB3	1:H:1009:ILE:HD12	1.42	1.02
1:L:625:LEU:CD1	1:L:669:LEU:CD2	2.36	1.02
1:O:481:PRO:HA	1:O:484:MET:HE1	1.40	1.01
1:I:1012:THR:HG22	1:I:1019:LYS:NZ	1.75	1.01
1:J:1056:GLU:HB2	1:J:1057:PRO:CD	1.89	1.01
1:H:660:PHE:CG	1:H:677:LEU:CG	2.42	1.01
1:J:675:VAL:CG2	1:J:702:VAL:HG21	1.90	1.01
1:J:757:HIS:CE1	1:J:778:TYR:CD2	2.49	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:683:ASP:O	1:L:691:GLY:HA2	1.58	1.01
1:L:756:SER:O	1:L:772:VAL:HB	1.61	1.01
1:Q:620:PHE:CZ	1:Q:661:ASN:C	2.35	1.00
1:H:658:ALA:CB	1:H:676:LYS:HE2	1.90	1.00
1:H:952:HIS:CA	1:H:990:LYS:CE	2.37	1.00
1:L:1061:LEU:HD22	1:L:1091:GLN:HG2	1.38	1.00
1:H:617:HIS:HB2	1:H:635:VAL:HG21	1.03	1.00
1:H:1019:LYS:CB	1:H:1029:GLU:CB	2.40	1.00
1:J:675:VAL:HB	1:J:702:VAL:CG2	1.91	1.00
1:H:531:ASN:HB3	1:H:536:GLU:OE2	1.60	1.00
1:L:757:HIS:CE1	1:L:771:PHE:HD1	1.78	1.00
1:M:937:VAL:O	1:M:948:ILE:HA	1.60	1.00
1:I:1102:VAL:HG12	1:I:1109:LEU:HD23	1.43	1.00
1:H:616:LEU:HD23	1:H:635:VAL:HG13	1.43	1.00
1:J:1012:THR:CA	1:J:1053:PHE:CD2	2.43	1.00
1:I:484:MET:HE3	1:I:531:ASN:OD1	1.61	1.00
1:H:614:VAL:HG21	1:H:633:THR:CG2	1.92	0.99
1:I:752:GLU:HB2	1:I:757:HIS:CB	1.90	0.99
1:I:979:ARG:NE	1:I:1020:ILE:HD11	1.76	0.99
1:H:987:VAL:HG21	1:H:996:ILE:CG2	1.93	0.99
1:J:182:ASN:HA	1:J:245:LEU:HB2	1.45	0.99
1:L:385:LEU:CD1	1:L:466:TYR:CE2	2.45	0.99
1:Q:849:LEU:HD21	1:Q:855:GLN:HA	1.44	0.99
1:L:940:SER:CB	1:L:946:ARG:HH11	1.75	0.99
1:Q:621:CYS:HB3	1:Q:899:SER:C	1.82	0.99
1:Q:680:LEU:HG	1:Q:696:GLN:HB2	1.03	0.99
1:Q:849:LEU:CD2	1:Q:855:GLN:HA	1.93	0.99
1:J:716:ALA:CB	1:J:718:TYR:CE1	2.46	0.99
1:O:656:ARG:HD3	1:O:676:LYS:CE	1.87	0.99
1:L:685:PRO:CD	1:L:689:HIS:H	1.74	0.99
1:O:659:VAL:CG2	1:O:677:LEU:HD12	1.90	0.99
1:Q:659:VAL:HG21	1:Q:678:TRP:HZ3	1.25	0.98
1:J:813:PRO:HD2	1:J:824:LYS:N	1.77	0.98
1:L:683:ASP:HB3	1:L:693:SER:HB3	1.43	0.98
1:J:1056:GLU:CB	1:J:1057:PRO:HD3	1.88	0.98
1:H:630:ILE:CG2	1:H:632:LEU:CD2	2.41	0.98
1:J:729:ASN:N	1:J:735:ALA:CB	2.26	0.98
1:J:777:ARG:HH21	1:J:779:TYR:HA	1.25	0.98
1:J:1056:GLU:HB2	1:J:1057:PRO:HD3	0.99	0.98
1:L:685:PRO:HG2	1:L:689:HIS:H	1.25	0.98
1:J:675:VAL:HG11	1:J:702:VAL:HG11	0.99	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:622:LEU:CD1	1:Q:665:HIS:NE2	2.25	0.98
1:I:449:ILE:HG23	1:I:450:PRO:HD3	1.44	0.98
1:J:714:ILE:HG21	1:J:730:ILE:CD1	1.93	0.98
1:H:658:ALA:HB3	1:H:676:LYS:HE2	1.01	0.98
1:H:1019:LYS:HB2	1:H:1029:GLU:CB	1.94	0.98
2:G:46:VAL:HG21	1:Q:80:VAL:O	1.64	0.98
1:O:659:VAL:HG23	1:O:677:LEU:CD1	1.93	0.97
1:Q:639:GLY:HA3	1:Q:653:ASP:N	1.78	0.97
1:Q:664:LYS:CD	1:Q:681:TRP:CZ2	2.44	0.97
1:I:1018:CYS:N	1:I:1031:ILE:CG1	2.26	0.97
1:J:475:LEU:HD21	1:J:486:LEU:HB3	1.01	0.97
1:Q:849:LEU:HD21	1:Q:855:GLN:CA	1.94	0.97
1:I:534:LYS:HE2	1:I:537:ARG:HH21	1.29	0.97
1:K:449:ILE:HG23	1:K:450:PRO:HD3	1.43	0.97
1:L:757:HIS:HE1	1:L:771:PHE:HD1	1.06	0.97
1:I:977:MET:CB	1:I:990:LYS:H	1.78	0.97
1:I:987:VAL:HG22	1:I:998:PRO:CA	1.94	0.97
1:H:883:ILE:HD12	1:H:902:ILE:HB	1.43	0.97
1:J:761:LEU:HB3	1:J:804:HIS:CD2	1.99	0.97
1:H:928:VAL:HB	1:H:1234:HIS:CD2	2.00	0.96
1:J:729:ASN:H	1:J:735:ALA:HB2	1.30	0.96
1:K:449:ILE:CG2	1:K:450:PRO:HD3	1.94	0.96
1:M:153:LEU:HD11	1:M:320:ASN:HD21	1.25	0.96
1:Q:644:LEU:HD21	1:Q:897:ASN:HD21	1.25	0.96
1:L:940:SER:HA	1:L:946:ARG:HD3	1.46	0.96
1:I:990:LYS:HD3	1:I:1011:PRO:HG3	1.45	0.96
1:H:1149:LEU:HA	1:H:1181:CYS:HB2	1.46	0.96
1:Q:657:MET:HB2	1:Q:676:LYS:HE2	1.45	0.96
1:L:783:THR:CG2	1:L:822:ARG:NH2	2.28	0.96
1:I:525:LYS:CG	1:I:526:PRO:HD3	1.94	0.96
1:J:679:SER:CB	1:J:702:VAL:N	2.29	0.96
1:O:656:ARG:HD2	1:O:676:LYS:CE	1.94	0.96
1:L:1062:LYS:HZ2	1:L:1062:LYS:HB3	1.25	0.96
1:Q:825:THR:OG1	1:Q:830:LEU:HA	1.66	0.96
1:Q:888:LYS:CG	1:Q:898:VAL:CG1	2.44	0.96
1:L:385:LEU:HD13	1:L:466:TYR:CE2	2.01	0.96
1:M:1106:TYR:HD2	1:M:1109:LEU:HA	1.31	0.96
2:A:23:ASN:HA	2:A:26:VAL:HG12	1.48	0.96
1:Q:671:CYS:HB3	1:Q:683:ASP:OD2	1.64	0.96
1:H:930:HIS:HE1	1:H:1227:SER:HA	0.81	0.96
1:J:946:ARG:HB2	1:J:977:MET:SD	2.06	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:472:GLY:CA	1:O:487:PHE:CZ	2.49	0.95
1:I:532:ASP:HB2	1:I:533:PRO:HD2	1.45	0.95
1:I:1102:VAL:CG1	1:I:1109:LEU:HD23	1.95	0.95
1:H:941:ASN:ND2	1:H:960:MET:SD	2.39	0.95
1:J:808:VAL:HG23	1:J:853:ALA:HA	1.47	0.95
1:J:1052:GLN:HB3	1:J:1058:ILE:HG21	1.45	0.95
1:K:1066:PRO:CB	1:K:1082:PHE:HA	1.95	0.95
1:L:757:HIS:HA	1:L:772:VAL:CG2	1.97	0.95
1:O:532:ASP:CG	1:O:533:PRO:HD2	1.87	0.95
1:Q:611:ARG:HG3	1:Q:647:ASP:OD1	1.64	0.95
1:Q:809:GLU:HG2	1:Q:811:ASP:HB2	1.47	0.95
1:J:768:ILE:HG22	1:J:780:VAL:CA	1.97	0.95
1:L:1092:PRO:HG2	1:L:1135:VAL:HG22	1.48	0.95
1:Q:664:LYS:HD3	1:Q:681:TRP:HZ2	1.24	0.95
1:J:718:TYR:CE1	1:J:728:ALA:CB	2.50	0.95
1:H:1019:LYS:CB	1:H:1029:GLU:HB3	1.97	0.95
1:J:761:LEU:CB	1:J:804:HIS:HD2	1.79	0.95
1:H:975:MET:HE2	1:H:996:ILE:CG2	1.97	0.94
1:H:660:PHE:CG	1:H:677:LEU:HB2	2.02	0.94
1:J:106:TYR:HD2	1:J:176:PHE:CE2	1.85	0.94
1:J:620:PHE:CD2	1:J:662:GLN:CA	2.50	0.94
1:M:1109:LEU:CB	1:M:1130:ASN:HD22	1.78	0.94
1:L:783:THR:HG22	1:L:822:ARG:HH21	1.28	0.94
1:M:761:LEU:HB2	1:M:804:HIS:CD2	2.01	0.94
1:I:449:ILE:CG2	1:I:450:PRO:HD3	1.97	0.94
1:J:716:ALA:HB3	1:J:718:TYR:HE1	1.19	0.94
1:J:717:PHE:CE2	1:J:727:GLU:OE2	2.21	0.94
1:O:659:VAL:CG2	1:O:677:LEU:CD1	2.45	0.94
1:I:970:TYR:CZ	1:I:991:GLU:HG3	2.01	0.94
1:J:1083:GLN:HE22	1:J:1101:ASP:HB3	1.32	0.94
2:G:34:LEU:O	2:G:37:GLU:HG3	1.67	0.94
1:H:620:PHE:CE1	1:H:901:HIS:CE1	2.56	0.94
1:H:987:VAL:HG21	1:H:996:ILE:HG23	1.45	0.94
1:J:480:HIS:HB2	1:J:531:ASN:HB3	1.49	0.94
1:J:675:VAL:CG1	1:J:702:VAL:CG2	2.42	0.94
1:O:1068:ILE:HA	1:O:1080:VAL:HG11	1.50	0.94
1:I:752:GLU:HB2	1:I:757:HIS:HB2	1.50	0.94
1:I:970:TYR:CE1	1:I:991:GLU:HG3	2.03	0.94
1:J:1012:THR:HA	1:J:1053:PHE:HD2	1.32	0.94
1:J:752:GLU:OE2	1:J:806:PHE:CZ	2.21	0.94
1:J:814:LEU:CD2	1:J:823:SER:CB	2.45	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:611:ARG:NH1	1:Q:630:ILE:HD13	1.83	0.94
1:Q:979:ARG:CD	1:Q:985:LEU:HD21	1.98	0.94
1:M:761:LEU:CD1	1:M:804:HIS:ND1	2.30	0.93
1:Q:620:PHE:CZ	1:Q:662:GLN:N	2.36	0.93
1:I:746:TRP:N	1:I:763:THR:HG1	1.66	0.93
1:H:611:ARG:HH22	1:H:630:ILE:HD12	1.14	0.93
1:J:757:HIS:NE2	1:J:778:TYR:CE2	2.35	0.93
1:M:62:PHE:HD1	1:M:65:LEU:HD21	1.32	0.93
1:H:970:TYR:CD2	1:H:1011:PRO:HA	2.03	0.93
1:J:761:LEU:HB3	1:J:804:HIS:HD2	1.33	0.93
1:Q:979:ARG:CD	1:Q:985:LEU:CD2	2.47	0.93
1:L:1007:SER:HB2	1:L:1021:ASN:HD21	1.19	0.93
1:M:1106:TYR:CB	1:M:1110:GLN:HE22	1.81	0.93
1:K:941:ASN:ND2	1:K:960:MET:SD	2.42	0.93
1:K:1049:LEU:HB2	1:K:1061:LEU:HD12	0.93	0.93
1:H:656:ARG:HH12	1:H:680:LEU:HD12	1.28	0.93
1:L:483:ARG:HH12	1:L:531:ASN:HB3	0.88	0.93
1:Q:825:THR:HG21	1:Q:829:LEU:O	1.68	0.93
1:I:1108:SER:H	1:I:1130:ASN:ND2	1.67	0.93
1:H:1019:LYS:CB	1:H:1029:GLU:HB2	2.00	0.92
1:H:658:ALA:HB3	1:H:676:LYS:CE	1.95	0.92
1:J:814:LEU:HD23	1:J:823:SER:CB	1.99	0.92
1:M:457:ASP:HB3	1:M:583:ARG:HE	1.34	0.92
1:L:685:PRO:CG	1:L:689:HIS:CB	2.28	0.92
1:J:743:ILE:HB	1:J:775:LEU:CD2	1.99	0.92
1:L:1061:LEU:C	1:L:1066:PRO:HB3	1.90	0.92
1:Q:664:LYS:CG	1:Q:681:TRP:CZ2	2.51	0.92
1:H:977:MET:SD	1:H:1009:ILE:HD13	2.09	0.92
1:Q:769:ARG:NH2	1:Q:824:LYS:HB3	1.84	0.92
1:J:620:PHE:HE2	1:J:662:GLN:HB2	1.32	0.92
1:J:101:MET:O	1:J:105:MET:HG3	1.70	0.92
1:J:813:PRO:HG2	1:J:824:LYS:N	1.85	0.92
1:H:660:PHE:CE1	1:H:677:LEU:HG	2.05	0.92
1:H:678:TRP:HA	1:H:678:TRP:CE3	2.05	0.92
1:H:929:VAL:HG13	1:H:931:VAL:HG22	1.52	0.92
1:J:106:TYR:CD2	1:J:176:PHE:HE2	1.88	0.92
1:L:1024:SER:HB3	1:L:1026:PHE:CE2	2.04	0.92
1:L:1061:LEU:HD21	1:L:1091:GLN:HG2	1.48	0.92
1:J:482:GLU:O	1:J:486:LEU:HB2	1.69	0.92
1:L:1061:LEU:HA	1:L:1066:PRO:HB2	1.49	0.92
1:O:637:LEU:CD1	1:O:658:ALA:H	1.81	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1018:CYS:N	1:I:1031:ILE:HG12	1.85	0.92
1:H:1030:GLN:HA	1:H:1030:GLN:HE21	1.35	0.91
1:H:287:HIS:HB3	1:H:290:MET:HG2	1.52	0.91
1:H:621:CYS:HB3	1:H:900:GLU:CD	1.89	0.91
1:H:660:PHE:CD1	1:H:677:LEU:CD1	2.53	0.91
1:Q:881:GLY:O	1:Q:887:LEU:HD11	1.69	0.91
1:L:685:PRO:CG	1:L:689:HIS:N	2.32	0.91
1:Q:888:LYS:HA	1:Q:888:LYS:NZ	1.84	0.91
1:I:1065:SER:O	1:I:1084:LEU:HD12	1.70	0.91
1:L:666:LEU:CD2	1:L:707:GLY:HA3	2.00	0.91
1:H:1012:THR:HG21	1:H:1018:CYS:HA	1.49	0.91
1:J:806:PHE:HE1	1:J:813:PRO:HB3	1.24	0.91
1:M:1090:LEU:O	1:M:1103:SER:HA	1.70	0.91
1:K:1068:ILE:HD13	1:K:1080:VAL:HG22	1.53	0.91
1:J:48:ILE:HA	1:J:60:ARG:HH22	1.35	0.91
1:L:1062:LYS:H	1:L:1066:PRO:HB3	1.26	0.91
1:K:619:ASP:HB2	1:K:634:ASP:HA	1.50	0.91
1:H:154:GLY:O	1:H:322:ARG:HG3	1.71	0.91
1:Q:616:LEU:CB	1:Q:635:VAL:HB	2.00	0.91
1:I:534:LYS:CE	1:I:537:ARG:NH2	2.33	0.91
1:L:757:HIS:HE1	1:L:771:PHE:CD1	1.88	0.90
1:M:939:GLY:C	1:M:947:GLU:H	1.75	0.90
1:H:936:SER:HB3	1:H:953:SER:HB3	1.50	0.90
1:L:978:THR:HG23	1:L:986:ALA:H	1.36	0.90
1:L:213:HIS:H	1:L:220:ARG:HD2	1.36	0.90
1:J:762:LYS:HG3	1:J:764:MET:HE1	1.54	0.90
1:J:813:PRO:HG3	1:J:824:LYS:HB2	0.91	0.90
1:H:1052:GLN:NE2	1:H:1058:ILE:HG13	1.86	0.90
1:J:656:ARG:HH22	1:J:675:VAL:HA	1.34	0.90
1:L:625:LEU:HD11	1:L:669:LEU:HD21	1.50	0.90
1:H:854:VAL:HG12	1:H:867:ARG:O	1.72	0.90
1:O:472:GLY:N	1:O:487:PHE:HZ	1.70	0.90
1:J:806:PHE:CD1	1:J:813:PRO:HA	2.06	0.90
1:L:757:HIS:CE1	1:L:771:PHE:CD1	2.60	0.90
1:J:718:TYR:HE1	1:J:728:ALA:HB3	1.16	0.90
1:H:989:SER:HB2	1:H:994:HIS:CA	1.99	0.89
1:L:449:ILE:HG23	1:L:450:PRO:CD	2.02	0.89
1:J:106:TYR:HD2	1:J:176:PHE:HE2	1.15	0.89
1:L:927:GLN:O	1:L:937:VAL:HG13	1.71	0.89
1:I:1083:GLN:NE2	1:I:1085:GLU:HB3	1.86	0.89
1:J:1050:PRO:HB3	1:J:1061:LEU:H	1.35	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:923:ALA:HB2	1:L:941:ASN:O	1.71	0.89
1:L:927:GLN:HE22	1:L:929:VAL:HG13	1.36	0.89
1:L:1009:ILE:HD11	1:L:1020:ILE:HA	1.54	0.89
1:Q:888:LYS:CB	1:Q:898:VAL:CG1	2.43	0.89
1:J:743:ILE:HD13	1:J:775:LEU:HD13	1.53	0.89
1:J:1047:THR:HG22	1:J:1062:LYS:HB2	1.54	0.89
1:O:656:ARG:NH1	1:O:678:TRP:CE3	2.40	0.89
1:H:620:PHE:CE1	1:H:901:HIS:HE1	1.88	0.89
1:M:1106:TYR:CE2	1:M:1109:LEU:HD12	2.07	0.89
1:Q:622:LEU:HD13	1:Q:665:HIS:HE2	1.10	0.89
1:Q:825:THR:HG21	1:Q:830:LEU:N	1.87	0.89
1:J:761:LEU:CB	1:J:804:HIS:CD2	2.56	0.89
1:H:1000:ILE:HG13	1:H:1020:ILE:HD11	0.90	0.89
1:J:680:LEU:HD22	1:J:696:GLN:CB	2.02	0.89
1:O:637:LEU:HD11	1:O:658:ALA:H	1.06	0.89
1:J:829:LEU:H	1:J:829:LEU:HD22	1.37	0.88
1:M:182:ASN:HA	1:M:245:LEU:HB2	1.53	0.88
1:J:675:VAL:HG11	1:J:702:VAL:HG21	1.52	0.88
1:M:61:LEU:C	1:M:65:LEU:HD23	1.93	0.88
1:M:940:SER:N	1:M:947:GLU:H	1.72	0.88
1:H:614:VAL:CG2	1:H:633:THR:CG2	2.50	0.88
1:H:979:ARG:HB2	1:H:1007:SER:HA	1.53	0.88
1:O:637:LEU:CD1	1:O:658:ALA:N	2.35	0.88
2:B:10:MET:SD	2:B:15:ARG:NH1	2.47	0.88
2:G:10:MET:SD	2:G:15:ARG:NH1	2.46	0.88
1:I:964:CYS:HB3	1:I:979:ARG:HB2	1.56	0.88
1:I:1029:GLU:OE2	1:I:1031:ILE:CD1	2.21	0.88
1:K:679:SER:HG	1:K:702:VAL:N	1.70	0.88
1:H:952:HIS:O	1:H:991:GLU:CB	2.22	0.88
1:L:978:THR:HG21	1:L:986:ALA:C	1.92	0.88
1:I:684:CYS:HG	1:I:691:GLY:HA3	1.39	0.88
1:Q:621:CYS:HB2	1:Q:899:SER:N	1.89	0.88
1:J:675:VAL:CG1	1:J:702:VAL:CG1	2.25	0.88
1:J:620:PHE:CD2	1:J:662:GLN:HB2	2.09	0.88
1:L:1009:ILE:CD1	1:L:1020:ILE:HG12	2.03	0.88
1:M:498:GLU:HG3	1:M:520:GLN:HE21	1.39	0.88
1:O:1068:ILE:HB	1:O:1077:GLN:HG2	1.55	0.87
1:Q:833:LYS:HD3	1:Q:835:SER:HB3	1.55	0.87
1:L:685:PRO:HG2	1:L:689:HIS:N	1.89	0.87
1:O:523:PHE:O	1:O:527:TYR:HD2	1.54	0.87
1:H:216:ASN:HB3	1:H:219:LEU:HB2	1.57	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:977:MET:HB3	1:H:1009:ILE:CD1	2.03	0.87
1:H:1019:LYS:HB3	1:H:1029:GLU:HB2	1.54	0.87
1:L:757:HIS:HB3	1:L:770:CYS:O	1.75	0.87
1:O:880:GLU:OE2	1:O:907:ILE:HG21	1.75	0.87
1:Q:664:LYS:CG	1:Q:681:TRP:HZ2	1.87	0.87
1:H:476:LYS:NZ	1:H:529:CYS:SG	2.47	0.87
1:H:954:ALA:HB2	1:H:969:VAL:CG2	2.04	0.87
1:J:108:GLU:HG3	1:I:142:ARG:HH22	1.37	0.87
1:L:1061:LEU:CD2	1:L:1091:GLN:CG	2.49	0.87
1:L:1123:VAL:HG13	1:L:1125:HIS:ND1	1.88	0.87
1:L:1227:SER:HB2	1:L:1234:HIS:HE1	1.40	0.87
1:Q:616:LEU:HD12	1:Q:635:VAL:O	1.73	0.87
1:Q:807:ASN:ND2	1:Q:855:GLN:NE2	2.22	0.87
1:I:990:LYS:HD2	1:I:1011:PRO:CD	2.05	0.87
1:I:990:LYS:CB	1:I:1011:PRO:HG3	2.05	0.87
1:H:480:HIS:HB2	1:H:530:ASP:C	1.94	0.87
1:M:969:VAL:H	1:M:1011:PRO:HG3	1.39	0.87
1:O:525:LYS:CG	1:O:526:PRO:HD3	2.04	0.87
1:L:101:MET:O	1:L:105:MET:CE	2.23	0.87
1:Q:878:THR:HG21	1:Q:887:LEU:O	1.72	0.87
1:J:729:ASN:HB2	1:J:735:ALA:HA	0.90	0.86
1:J:808:VAL:HG23	1:J:853:ALA:CA	2.05	0.86
1:J:488:ARG:CD	1:J:491:PHE:HD2	1.89	0.86
1:L:446:HIS:O	1:L:450:PRO:HG2	1.75	0.86
1:O:345:ASN:OD1	1:O:348:LYS:HB3	1.74	0.86
1:I:1029:GLU:OE2	1:I:1031:ILE:HD12	1.74	0.86
1:H:660:PHE:HB3	1:H:676:LYS:HB2	1.57	0.86
1:H:531:ASN:HD22	1:H:535:TYR:HB2	1.39	0.86
1:H:660:PHE:CG	1:H:677:LEU:CB	2.59	0.86
1:Q:685:PRO:HG2	1:Q:689:HIS:N	1.90	0.86
1:J:106:TYR:HE2	1:J:171:GLN:HB3	1.40	0.86
1:L:950:TRP:HB2	1:L:955:ASP:HB2	1.55	0.86
1:Q:673:GLY:HA3	1:Q:682:PRO:O	1.75	0.86
1:Q:849:LEU:HD11	1:Q:854:VAL:O	1.73	0.86
1:K:1049:LEU:H	1:K:1061:LEU:HB3	1.39	0.86
1:J:620:PHE:CG	1:J:662:GLN:HA	2.10	0.86
1:J:926:LYS:HE2	1:J:1223:GLN:HE21	1.41	0.86
1:H:617:HIS:HB2	1:H:635:VAL:HG23	1.53	0.86
1:O:1007:SER:HB3	1:O:1047:THR:O	1.75	0.86
1:L:888:LYS:HG2	1:L:899:SER:HA	1.58	0.85
1:J:483:ARG:NH2	1:J:487:PHE:CD1	2.44	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:769:ARG:NH1	1:J:824:LYS:HD2	1.91	0.85
1:Q:618:ASN:HD22	1:Q:901:HIS:H	1.19	0.85
1:I:112:ARG:HH12	1:I:115:ASN:HD22	1.23	0.85
1:H:952:HIS:C	1:H:990:LYS:CE	2.40	0.85
1:I:446:HIS:O	1:I:450:PRO:HG2	1.76	0.85
1:H:642:THR:HG22	1:H:649:SER:HA	1.57	0.85
1:H:930:HIS:CE1	1:H:1227:SER:CA	2.29	0.85
1:J:807:ASN:ND2	1:J:853:ALA:HB1	1.91	0.85
1:I:1012:THR:HG22	1:I:1019:LYS:HZ1	1.36	0.85
1:H:660:PHE:CA	1:H:676:LYS:HB2	2.06	0.85
1:H:769:ARG:HB2	1:H:778:TYR:HB2	1.56	0.85
1:L:681:TRP:CH2	1:L:705:PHE:HB3	2.11	0.85
1:Q:639:GLY:HA3	1:Q:653:ASP:H	1.39	0.85
1:L:1062:LYS:CD	1:L:1066:PRO:CA	2.47	0.85
1:I:987:VAL:CG2	1:I:998:PRO:C	2.45	0.85
1:J:475:LEU:HD21	1:J:486:LEU:CG	2.07	0.85
1:O:748:GLU:HB2	1:O:761:LEU:HB2	1.58	0.85
1:I:1109:LEU:HD21	1:I:1133:ALA:HB2	1.58	0.85
1:H:633:THR:HB	1:H:638:GLU:HG3	1.59	0.85
1:J:729:ASN:N	1:J:735:ALA:HB1	1.92	0.85
1:L:833:LYS:HD3	1:L:872:ARG:HB2	1.57	0.85
1:M:125:VAL:HG23	1:M:303:LYS:HD3	1.59	0.84
1:I:987:VAL:CG2	1:I:998:PRO:CA	2.55	0.84
1:K:1060:TYR:CE2	1:K:1070:VAL:HG21	2.12	0.84
1:H:630:ILE:CG2	1:H:632:LEU:HD23	2.05	0.84
1:H:930:HIS:HE1	1:H:1227:SER:CB	1.76	0.84
1:J:749:GLN:HB2	1:J:759:PRO:O	1.76	0.84
1:Q:746:TRP:HA	1:Q:762:LYS:HG2	1.59	0.84
1:I:142:ARG:HD3	1:I:144:ALA:H	1.42	0.84
1:J:761:LEU:CD1	1:J:817:ASP:OD2	2.23	0.84
1:J:1026:PHE:CD2	1:J:1039:VAL:HG11	2.11	0.84
1:Q:1084:LEU:HD21	1:Q:1105:LYS:HD2	1.57	0.84
1:I:990:LYS:CD	1:I:1011:PRO:HD3	2.06	0.84
1:M:210:ARG:NH1	1:M:211:SER:OG	2.11	0.84
1:I:990:LYS:CD	1:I:1011:PRO:CD	2.55	0.84
1:H:660:PHE:CB	1:H:677:LEU:CB	2.47	0.84
1:H:1012:THR:CG2	1:H:1018:CYS:HA	2.06	0.84
1:J:723:ALA:N	1:J:744:LEU:HD12	1.92	0.84
1:H:965:LEU:HD13	1:H:979:ARG:O	1.77	0.84
2:C:83:GLY:HA2	1:K:87:PHE:HB2	1.59	0.84
1:K:1042:ASP:OD2	1:K:1060:TYR:CZ	2.31	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:771:PHE:HE1	1:L:773:GLN:OE1	1.60	0.84
1:Q:1199:ASP:HB3	1:Q:1219:ASN:HB3	1.60	0.84
1:I:938:SER:HB2	1:I:967:PRO:O	1.76	0.84
1:H:563:ARG:HH22	1:H:1245:LYS:HG3	1.43	0.84
1:O:522:LYS:O	1:O:526:PRO:CG	2.26	0.84
1:H:611:ARG:NH2	1:H:630:ILE:CD1	2.40	0.84
2:F:17:HIS:O	2:F:21:ASN:HB2	1.78	0.84
1:Q:644:LEU:CD2	1:Q:897:ASN:OD1	2.25	0.84
1:Q:705:PHE:HB3	1:Q:718:TYR:HA	1.59	0.84
1:I:752:GLU:HB2	1:I:757:HIS:HB3	1.60	0.84
1:J:706:ILE:CD1	1:J:717:PHE:O	2.24	0.84
1:J:716:ALA:O	1:J:718:TYR:CD1	2.31	0.84
1:M:62:PHE:CD1	1:M:65:LEU:HD21	2.12	0.84
1:J:475:LEU:CD2	1:J:486:LEU:CB	2.38	0.83
1:L:966:GLU:OE1	1:L:1009:ILE:CB	2.24	0.83
1:O:182:ASN:HA	1:O:245:LEU:HB2	1.58	0.83
1:H:660:PHE:HB2	1:H:677:LEU:HB2	0.84	0.83
1:O:475:LEU:HD12	1:O:487:PHE:HE1	1.42	0.83
1:K:971:LEU:HD21	1:K:1013:HIS:O	1.79	0.83
1:O:39:ILE:HG13	1:O:72:MET:HB3	1.58	0.83
1:O:609:GLU:HB2	1:O:908:TYR:HB3	1.60	0.83
1:J:781:VAL:HG13	1:J:822:ARG:HH12	1.43	0.83
1:L:483:ARG:NH1	1:L:531:ASN:CB	2.26	0.83
1:H:1052:GLN:HE22	1:H:1058:ILE:HG13	1.43	0.83
1:L:1022:ALA:O	1:L:1046:ASP:HB2	1.78	0.83
1:L:1067:ASN:HA	1:L:1105:LYS:HB2	1.58	0.83
1:J:704:ARG:HD3	1:J:706:ILE:CD1	2.08	0.83
1:L:362:PRO:HA	1:L:366:ARG:HD3	1.60	0.83
1:M:629:GLN:O	1:M:644:LEU:HD21	1.79	0.83
1:H:989:SER:CB	1:H:994:HIS:CA	2.57	0.83
1:J:781:VAL:CG1	1:J:822:ARG:NH1	2.42	0.83
1:L:531:ASN:OD1	1:L:536:GLU:HG2	1.77	0.83
1:Q:657:MET:CB	1:Q:676:LYS:HE2	2.08	0.83
2:D:10:MET:SD	2:D:15:ARG:NH1	2.52	0.83
1:K:1136:LYS:HG2	1:K:1190:LYS:HG2	1.59	0.83
1:Q:616:LEU:HB2	1:Q:635:VAL:HB	1.61	0.82
1:Q:663:GLN:HG3	1:Q:674:SER:CB	2.09	0.82
1:Q:923:ALA:HA	1:Q:1240:LEU:HD22	1.59	0.82
1:I:532:ASP:HB2	1:I:533:PRO:HD3	1.59	0.82
1:K:621:CYS:HB2	1:K:900:GLU:OE2	1.79	0.82
1:H:660:PHE:CD2	1:H:677:LEU:HG	2.13	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:532:ASP:OD1	1:J:535:TYR:HB2	1.78	0.82
1:M:133:LYS:NZ	1:M:290:MET:SD	2.51	0.82
1:Q:351:THR:O	1:Q:355:SER:HB3	1.79	0.82
1:Q:680:LEU:HD12	1:Q:696:GLN:OE1	1.78	0.82
1:J:1019:LYS:HZ1	1:J:1053:PHE:HB2	1.45	0.82
1:J:1057:PRO:HD2	1:J:1058:ILE:HD12	1.61	0.82
1:Q:866:LYS:HE3	1:Q:879:SER:HB2	1.60	0.82
1:K:1043:VAL:HG12	1:K:1045:HIS:N	1.94	0.82
1:H:990:LYS:NZ	1:H:990:LYS:HB3	1.94	0.82
1:L:1062:LYS:HB3	1:L:1062:LYS:NZ	1.93	0.82
1:Q:628:GLY:CA	1:Q:644:LEU:HD12	2.09	0.82
1:H:616:LEU:HB3	1:H:635:VAL:HG11	1.60	0.82
1:H:977:MET:CB	1:H:1009:ILE:CD1	2.57	0.82
1:I:968:ASN:CB	1:I:990:LYS:CG	2.57	0.82
1:I:1085:GLU:HG2	1:I:1106:TYR:OH	1.80	0.82
1:I:968:ASN:HB2	1:I:990:LYS:HG3	1.57	0.82
1:H:785:ASN:HB2	1:H:836:VAL:CG2	2.10	0.82
1:J:813:PRO:CG	1:J:824:LYS:N	2.43	0.82
1:L:783:THR:CG2	1:L:822:ARG:HH21	1.91	0.82
1:O:1219:ASN:CB	1:O:1238:GLN:CD	2.47	0.82
1:I:1012:THR:CG2	1:I:1019:LYS:HZ1	1.91	0.82
1:K:656:ARG:HH21	1:K:676:LYS:HD3	1.43	0.82
1:H:952:HIS:CG	1:H:990:LYS:HD3	2.14	0.82
1:L:275:LEU:HD12	1:L:280:THR:HG21	1.59	0.82
1:L:661:ASN:HB2	1:L:675:VAL:HG12	1.62	0.82
1:L:1061:LEU:HD21	1:L:1091:GLN:HB2	1.62	0.82
1:Q:849:LEU:CG	1:Q:854:VAL:O	2.28	0.82
1:I:1012:THR:CG2	1:I:1019:LYS:NZ	2.41	0.82
1:I:1064:VAL:HG23	1:I:1105:LYS:HE2	1.61	0.82
1:J:663:GLN:HB3	1:J:674:SER:HB3	1.60	0.82
1:J:762:LYS:HG2	1:J:764:MET:SD	2.20	0.82
1:J:965:LEU:HD23	1:J:981:ARG:NH2	1.94	0.82
1:J:1025:ALA:HB1	1:J:1042:ASP:HB2	1.61	0.82
1:O:857:PRO:HD2	1:O:866:LYS:HD3	1.62	0.82
1:I:968:ASN:CB	1:I:990:LYS:HG2	2.10	0.82
1:I:987:VAL:HG13	1:I:999:ALA:HA	1.62	0.82
1:K:93:LYS:HB2	1:K:97:ARG:HH22	1.45	0.82
1:J:704:ARG:NH1	1:J:749:GLN:HG3	1.95	0.81
1:I:1064:VAL:O	1:I:1105:LYS:HG2	1.79	0.81
1:H:990:LYS:HB3	1:H:990:LYS:HZ2	1.44	0.81
1:J:1050:PRO:CB	1:J:1061:LEU:H	1.91	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:979:ARG:NE	1:Q:985:LEU:CD2	2.43	0.81
1:H:929:VAL:CG1	1:H:931:VAL:HG22	2.09	0.81
1:H:979:ARG:CB	1:H:1007:SER:HA	2.09	0.81
1:J:761:LEU:HD22	1:J:804:HIS:CD2	2.15	0.81
1:J:1047:THR:CG2	1:J:1062:LYS:HB2	2.11	0.81
1:Q:704:ARG:O	1:Q:719:LEU:HD12	1.79	0.81
1:Q:888:LYS:HZ2	1:Q:888:LYS:CA	1.89	0.81
1:Q:978:THR:HG23	1:Q:986:ALA:HB3	1.62	0.81
1:I:350:THR:HG22	1:I:429:LEU:HD21	1.62	0.81
1:I:756:SER:HA	1:I:772:VAL:HG22	1.62	0.81
1:I:977:MET:HE1	1:I:1009:ILE:HG23	1.61	0.81
1:I:990:LYS:CD	1:I:1011:PRO:HG3	2.09	0.81
1:H:480:HIS:HB2	1:H:530:ASP:O	1.80	0.81
1:H:783:THR:HB	1:H:787:THR:OG1	1.80	0.81
1:M:221:ILE:HD12	1:M:224:ILE:HD11	1.61	0.81
1:Q:671:CYS:HA	1:Q:684:CYS:O	1.81	0.81
1:Q:1029:GLU:HB2	1:Q:1038:GLY:HA3	1.60	0.81
1:I:927:GLN:HG3	1:I:966:GLU:OE2	1.81	0.81
1:K:1043:VAL:HB	1:K:1062:LYS:CG	2.04	0.81
1:K:1067:ASN:HD21	1:K:1091:GLN:HE21	1.26	0.81
1:H:1109:LEU:HB2	1:H:1123:VAL:HB	1.61	0.81
1:J:345:ASN:OD1	1:J:348:LYS:HD2	1.78	0.81
1:J:781:VAL:CG1	1:J:822:ARG:HH11	1.94	0.81
1:J:808:VAL:CG2	1:J:853:ALA:N	2.43	0.81
1:K:447:TYR:C	1:K:450:PRO:HD2	2.00	0.81
1:J:687:ARG:NH1	1:J:687:ARG:HA	1.95	0.81
1:L:625:LEU:HG	1:L:669:LEU:HD21	1.61	0.81
1:M:1049:LEU:HB2	1:M:1061:LEU:CB	2.10	0.81
1:H:39:ILE:HG13	1:H:72:MET:HB2	1.62	0.81
1:I:275:LEU:HD12	1:I:280:THR:HG21	1.60	0.81
1:L:681:TRP:CZ2	1:L:705:PHE:HB3	2.16	0.81
1:I:82:ARG:NH2	1:I:89:MET:SD	2.53	0.81
1:J:656:ARG:HH22	1:J:675:VAL:CA	1.93	0.81
1:J:729:ASN:N	1:J:735:ALA:HB2	1.92	0.81
1:L:979:ARG:NH1	1:L:1020:ILE:HG23	1.96	0.81
1:J:629:GLN:NE2	1:J:641:ASP:HB3	1.95	0.81
1:L:685:PRO:HD2	1:L:689:HIS:H	1.44	0.81
1:M:850:GLN:HG2	1:M:892:PRO:HA	1.62	0.81
1:Q:978:THR:HG21	1:Q:989:SER:HB2	1.61	0.81
1:I:405:LEU:HB3	1:I:410:LEU:HD21	0.85	0.81
1:K:979:ARG:HH12	1:K:1007:SER:N	1.79	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:656:ARG:CZ	1:H:680:LEU:HD12	2.10	0.80
1:J:757:HIS:HE1	1:J:778:TYR:CD2	1.96	0.80
1:I:199:LEU:HD13	1:I:202:GLN:HE21	1.46	0.80
1:I:979:ARG:HE	1:I:1009:ILE:HD11	1.45	0.80
1:H:936:SER:HB2	1:H:953:SER:HB3	1.62	0.80
1:M:1061:LEU:HD11	1:M:1103:SER:OG	1.79	0.80
1:I:522:LYS:HA	1:I:525:LYS:HE2	1.60	0.80
1:I:1009:ILE:HG12	1:I:1020:ILE:HG13	1.63	0.80
1:K:1060:TYR:O	1:K:1067:ASN:HB2	1.81	0.80
2:E:29:THR:HG1	2:E:72:HIS:HE2	1.29	0.80
1:K:221:ILE:HD12	1:K:224:ILE:HD11	1.62	0.80
1:H:1010:THR:HB	1:H:1011:PRO:HD3	1.63	0.80
1:J:752:GLU:OE2	1:J:806:PHE:HZ	1.63	0.80
1:Q:824:LYS:NZ	1:Q:831:ILE:HD13	1.95	0.80
1:Q:979:ARG:HG2	1:Q:985:LEU:CD2	1.97	0.80
1:K:979:ARG:CZ	1:K:1020:ILE:HG23	2.12	0.80
1:H:987:VAL:CG2	1:H:996:ILE:CG2	2.55	0.80
1:J:813:PRO:CD	1:J:824:LYS:N	2.38	0.80
1:J:965:LEU:CD2	1:J:981:ARG:NH2	2.45	0.80
1:L:704:ARG:HH22	1:L:760:VAL:HG13	1.45	0.80
1:K:422:ILE:HB	1:K:427:LEU:HD12	1.63	0.80
1:K:1066:PRO:HB2	1:K:1081:ILE:O	1.80	0.80
1:J:213:HIS:H	1:J:220:ARG:HD2	1.45	0.80
1:Q:825:THR:CG2	1:Q:829:LEU:C	2.43	0.80
1:Q:888:LYS:CG	1:Q:898:VAL:HG11	2.08	0.80
1:L:783:THR:CG2	1:L:822:ARG:CZ	2.59	0.80
1:Q:685:PRO:HD2	1:Q:689:HIS:O	1.81	0.80
1:Q:1137:PRO:HD2	1:Q:1190:LYS:HG2	1.63	0.80
1:L:923:ALA:CB	1:L:941:ASN:O	2.28	0.80
1:M:276:SER:HA	1:O:122:LYS:HD2	1.63	0.80
2:G:12:LYS:HA	2:G:15:ARG:HD3	1.64	0.80
1:Q:12:TYR:HD1	1:Q:96:GLN:HG3	1.45	0.80
1:Q:377:PRO:HA	1:Q:427:LEU:HD22	1.64	0.80
1:Q:663:GLN:HG3	1:Q:674:SER:HB2	1.63	0.80
1:H:816:LEU:HD12	1:H:846:SER:HB3	1.62	0.80
1:H:1009:ILE:HG23	1:H:1018:CYS:SG	2.21	0.80
1:J:743:ILE:HG12	1:J:775:LEU:HD22	1.63	0.80
1:J:1052:GLN:O	1:J:1060:TYR:CZ	2.35	0.80
1:O:69:GLN:HE22	1:O:71:GLU:HB3	1.44	0.80
1:J:714:ILE:CG2	1:J:730:ILE:CD1	2.52	0.80
1:L:1008:THR:HG23	1:L:1050:PRO:HD2	1.64	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1109:LEU:HB2	1:L:1130:ASN:OD1	1.82	0.80
1:O:285:LEU:HA	1:O:290:MET:HB3	1.64	0.80
1:O:845:LEU:HD21	1:O:862:ILE:HA	1.64	0.80
1:J:35:MET:HE1	1:J:39:ILE:HG12	1.63	0.79
1:Q:644:LEU:HD21	1:Q:897:ASN:ND2	1.96	0.79
1:H:977:MET:SD	1:H:1009:ILE:CD1	2.70	0.79
1:L:625:LEU:HD12	1:L:669:LEU:CD2	2.07	0.79
1:L:923:ALA:HB2	1:L:942:SER:HA	1.62	0.79
1:L:1009:ILE:HD13	1:L:1020:ILE:CA	2.11	0.79
1:L:1068:ILE:HD13	1:L:1077:GLN:NE2	1.97	0.79
1:O:637:LEU:CD1	1:O:658:ALA:O	2.30	0.79
1:Q:657:MET:CB	1:Q:676:LYS:CD	2.35	0.79
1:H:678:TRP:HA	1:H:678:TRP:HE3	1.43	0.79
1:J:679:SER:HA	1:J:702:VAL:HG22	1.64	0.79
1:J:978:THR:HG21	1:J:986:ALA:CB	2.10	0.79
1:L:641:ASP:HB2	1:L:650:ASP:HB2	1.63	0.79
1:L:663:GLN:HG3	1:L:674:SER:CA	2.09	0.79
1:L:1062:LYS:H	1:L:1066:PRO:CB	1.93	0.79
1:M:145:LYS:HE3	1:M:280:THR:HA	1.65	0.79
1:O:1219:ASN:CB	1:O:1238:GLN:NE2	2.45	0.79
2:C:45:THR:H	2:C:48:MET:HB3	1.46	0.79
1:Q:611:ARG:CG	1:Q:647:ASP:OD1	2.30	0.79
1:Q:630:ILE:HD11	1:Q:644:LEU:HG	1.63	0.79
1:I:143:PRO:HA	1:I:261:LYS:HG3	1.62	0.79
1:I:989:SER:HA	1:I:993:ILE:HG21	1.63	0.79
1:H:704:ARG:CB	1:H:718:TYR:CD1	2.52	0.79
1:J:499:GLN:HE22	1:J:516:ASN:HB3	1.46	0.79
1:L:1019:LYS:HZ3	1:L:1058:ILE:HD13	1.44	0.79
1:O:471:ILE:HG23	1:O:487:PHE:CE2	2.17	0.79
1:I:990:LYS:CD	1:I:1011:PRO:CG	2.60	0.79
1:L:1061:LEU:HD21	1:L:1091:GLN:CG	2.12	0.79
1:M:919:VAL:HG13	1:M:920:LEU:HG	1.63	0.79
1:J:1067:ASN:HD22	1:J:1102:VAL:CG2	1.95	0.79
1:M:979:ARG:NH1	1:M:980:GLU:O	2.16	0.79
1:I:534:LYS:NZ	1:I:538:LEU:HD12	1.96	0.79
1:I:684:CYS:SG	1:I:691:GLY:CA	2.68	0.79
1:H:961:THR:OG1	1:H:964:CYS:SG	2.41	0.79
1:H:928:VAL:HG13	1:H:937:VAL:HG22	1.64	0.79
1:J:848:SER:HA	1:J:855:GLN:HG2	1.65	0.79
1:M:463:LEU:HD21	1:M:465:GLN:HE21	1.48	0.79
1:M:1049:LEU:HD12	1:M:1061:LEU:CD2	2.10	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:269:LYS:HE3	1:O:409:SER:HA	1.65	0.79
1:Q:621:CYS:SG	1:Q:898:VAL:CG1	2.69	0.79
1:Q:740:ASP:HB3	1:Q:775:LEU:HD13	1.65	0.79
1:I:532:ASP:O	1:I:536:GLU:HB3	1.82	0.79
1:H:532:ASP:OD1	1:H:535:TYR:HB2	1.82	0.79
1:J:1052:GLN:HB3	1:J:1058:ILE:CG2	2.13	0.79
1:L:445:ASP:O	1:L:449:ILE:HG22	1.82	0.79
1:L:1062:LYS:N	1:L:1066:PRO:CB	2.45	0.79
1:I:1183:GLU:HB2	1:I:1196:ALA:HB3	1.63	0.79
1:K:446:HIS:O	1:K:450:PRO:HG2	1.82	0.79
1:L:182:ASN:HA	1:L:245:LEU:HB2	1.65	0.78
1:L:941:ASN:HD22	1:L:963:ALA:HB1	1.47	0.78
1:I:532:ASP:CB	1:I:533:PRO:CD	2.55	0.78
1:I:728:ALA:HB2	1:I:735:ALA:HA	1.65	0.78
1:J:488:ARG:NE	1:J:491:PHE:HD2	1.82	0.78
1:J:722:ASP:C	1:J:744:LEU:HD12	2.04	0.78
1:J:824:LYS:HD3	1:J:830:LEU:HA	1.63	0.78
1:L:672:ASN:OD1	1:L:684:CYS:SG	2.41	0.78
1:H:883:ILE:CD1	1:H:902:ILE:HB	2.13	0.78
1:J:35:MET:HE1	1:J:39:ILE:H	1.47	0.78
1:J:660:PHE:CE1	1:J:676:LYS:HE3	2.18	0.78
1:J:715:VAL:HG13	1:J:727:GLU:HB3	1.66	0.78
1:Q:684:CYS:HB2	1:Q:685:PRO:HD2	1.64	0.78
1:H:719:LEU:CD2	1:H:751:GLN:CG	2.54	0.78
1:J:1047:THR:CG2	1:J:1062:LYS:CB	2.61	0.78
1:O:533:PRO:O	1:O:537:ARG:HG3	1.83	0.78
1:Q:888:LYS:CG	1:Q:898:VAL:HG12	2.09	0.78
1:L:447:TYR:C	1:L:450:PRO:HD2	2.03	0.78
1:M:250:ALA:H	1:M:270:GLN:HE22	1.30	0.78
1:M:939:GLY:HA2	1:M:946:ARG:HA	1.66	0.78
1:Q:622:LEU:HD13	1:Q:665:HIS:CD2	2.19	0.78
1:J:743:ILE:HD13	1:J:775:LEU:CD1	2.13	0.78
1:J:1143:TYR:HB3	1:J:1184:GLU:HG2	1.66	0.78
1:M:52:LYS:HD2	1:M:60:ARG:HD2	1.66	0.78
1:Q:939:GLY:HA2	1:Q:990:LYS:HZ1	1.49	0.78
1:I:609:GLU:HB2	1:I:908:TYR:HB2	1.66	0.78
1:K:929:VAL:HG11	1:K:971:LEU:CB	2.12	0.78
1:J:768:ILE:CG2	1:J:780:VAL:HA	2.04	0.78
1:O:824:LYS:HE2	1:O:831:ILE:HG12	1.66	0.78
1:I:987:VAL:HG22	1:I:998:PRO:HA	1.65	0.78
1:K:1060:TYR:O	1:K:1067:ASN:CB	2.32	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:954:ALA:H	1:H:990:LYS:HZ1	1.28	0.77
1:J:707:GLY:HA2	1:J:716:ALA:CB	2.13	0.77
1:J:725:LEU:HD12	1:J:742:SER:O	1.84	0.77
1:O:656:ARG:CB	1:O:676:LYS:HE3	2.14	0.77
1:Q:680:LEU:CD1	1:Q:696:GLN:CB	2.59	0.77
2:G:46:VAL:CG2	1:Q:80:VAL:O	2.33	0.77
1:J:276:SER:HA	1:K:122:LYS:HD3	1.67	0.77
1:J:389:ILE:HA	1:J:441:ARG:HH12	1.48	0.77
1:Q:630:ILE:CD1	1:Q:644:LEU:HG	2.14	0.77
1:Q:849:LEU:CD1	1:Q:854:VAL:O	2.31	0.77
1:J:744:LEU:O	1:J:744:LEU:HD13	1.85	0.77
1:L:664:LYS:NZ	1:L:664:LYS:HB3	1.99	0.77
1:O:12:TYR:HE1	1:O:97:ARG:HH22	1.31	0.77
1:O:717:PHE:HA	1:O:727:GLU:HG3	1.67	0.77
1:I:718:TYR:HB2	1:I:726:PRO:HG2	1.66	0.77
1:H:132:LEU:O	1:H:135:ARG:HG2	1.85	0.77
1:J:813:PRO:HG2	1:J:824:LYS:CB	2.15	0.77
1:J:1049:LEU:N	1:J:1050:PRO:HD3	2.00	0.77
1:L:683:ASP:CB	1:L:693:SER:HB3	2.13	0.77
1:M:979:ARG:HB2	1:M:1009:ILE:HD11	1.65	0.77
1:I:990:LYS:HB2	1:I:1011:PRO:HG3	1.67	0.77
1:I:979:ARG:CZ	1:I:1020:ILE:HD11	2.14	0.77
1:H:938:SER:HB3	1:H:954:ALA:HB1	1.67	0.77
1:J:768:ILE:CG2	1:J:780:VAL:CG1	2.62	0.77
1:Q:657:MET:CA	1:Q:676:LYS:HD2	2.14	0.77
1:Q:970:TYR:CD1	1:Q:976:ASP:OD1	2.38	0.77
1:Q:664:LYS:HG2	1:Q:681:TRP:CZ2	2.19	0.77
1:H:854:VAL:HG11	1:H:868:SER:HA	1.66	0.77
1:J:680:LEU:HD22	1:J:696:GLN:HB2	1.67	0.77
1:J:752:GLU:OE2	1:J:806:PHE:CE2	2.38	0.77
1:J:935:ARG:HH22	1:J:1232:HIS:HB2	1.49	0.77
1:J:1012:THR:CB	1:J:1053:PHE:CD2	2.67	0.77
1:L:856:LEU:HD21	1:L:888:LYS:HB2	1.67	0.77
2:N:10:MET:HB3	2:N:84:PRO:HA	1.67	0.77
1:Q:664:LYS:HE3	1:Q:664:LYS:O	1.85	0.77
1:I:534:LYS:O	1:I:537:ARG:HG3	1.84	0.77
1:I:977:MET:CE	1:I:1009:ILE:HG23	2.15	0.77
1:I:1232:HIS:HA	1:I:1245:LYS:HE3	1.67	0.77
1:H:76:PHE:HA	1:H:80:VAL:HB	1.67	0.77
1:J:1026:PHE:HD2	1:J:1039:VAL:HG11	1.49	0.77
1:Q:867:ARG:HA	1:Q:874:LEU:HA	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1049:LEU:O	1:K:1061:LEU:HB2	1.85	0.77
1:H:977:MET:HB2	1:H:1009:ILE:HD12	1.66	0.76
1:I:1064:VAL:O	1:I:1105:LYS:CG	2.32	0.76
1:H:1007:SER:HB3	1:H:1021:ASN:O	1.85	0.76
1:L:866:LYS:HG3	1:L:875:LEU:HB2	1.68	0.76
1:I:93:LYS:HB2	1:I:97:ARG:HH12	1.49	0.76
1:M:483:ARG:HG3	1:M:487:PHE:CE2	2.20	0.76
1:Q:657:MET:O	1:Q:676:LYS:HD2	1.86	0.76
1:I:754:LYS:CB	1:I:757:HIS:HD2	1.99	0.76
1:I:1108:SER:N	1:I:1130:ASN:ND2	2.34	0.76
1:H:660:PHE:CD1	1:H:677:LEU:HD12	2.21	0.76
1:L:651:SER:HB2	1:L:688:ARG:HD2	1.66	0.76
1:L:685:PRO:CD	1:L:689:HIS:N	2.47	0.76
1:H:531:ASN:HD22	1:H:535:TYR:CB	1.98	0.76
1:J:1024:SER:HA	1:J:1046:ASP:H	1.50	0.76
1:L:1091:GLN:HG3	1:L:1105:LYS:HA	1.66	0.76
1:H:531:ASN:ND2	1:H:535:TYR:CB	2.49	0.76
1:L:815:ALA:HB3	1:L:822:ARG:HB2	1.68	0.76
1:I:457:ASP:HB3	1:I:583:ARG:HE	1.51	0.76
1:I:987:VAL:CG2	1:I:998:PRO:HA	2.14	0.76
1:K:558:TYR:HE2	1:K:581:VAL:HG23	1.47	0.76
1:H:704:ARG:C	1:H:718:TYR:HE1	1.89	0.76
1:H:785:ASN:ND2	1:H:836:VAL:HG21	2.01	0.76
1:J:1052:GLN:O	1:J:1060:TYR:CE1	2.38	0.76
1:I:357:LEU:HG	1:I:430:LYS:HE2	1.67	0.76
1:I:977:MET:SD	1:I:989:SER:CA	2.73	0.76
1:J:525:LYS:N	1:J:526:PRO:HD2	2.00	0.76
1:L:48:ILE:HA	1:L:60:ARG:HD2	1.68	0.76
1:H:377:PRO:HA	1:H:427:LEU:HD22	1.67	0.76
1:H:630:ILE:HG22	1:H:632:LEU:HD21	1.68	0.76
1:J:26:ASN:HB2	2:D:81:GLN:HG2	1.68	0.76
1:M:940:SER:H	1:M:946:ARG:HA	1.51	0.76
1:Q:704:ARG:HB3	1:Q:704:ARG:NH1	2.00	0.76
1:I:1019:LYS:HD3	1:I:1052:GLN:HE21	1.50	0.76
1:K:16:LEU:HD23	1:K:65:LEU:CD2	2.15	0.76
1:L:978:THR:HG21	1:L:987:VAL:N	2.01	0.76
1:Q:623:ILE:HD13	1:Q:623:ILE:O	1.85	0.76
1:Q:888:LYS:CD	1:Q:898:VAL:CG1	2.58	0.76
1:I:768:ILE:HG12	1:I:777:ARG:HB3	1.66	0.76
1:H:979:ARG:HB2	1:H:1007:SER:CA	2.15	0.75
1:J:625:LEU:H	1:J:669:LEU:HD11	1.50	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:929:VAL:HB	1:I:936:SER:HB2	1.65	0.75
1:J:883:ILE:HD12	1:J:903:GLU:HG3	1.65	0.75
1:L:195:MET:SD	1:L:198:LYS:NZ	2.59	0.75
1:H:285:LEU:HD13	1:H:290:MET:HB3	1.66	0.75
1:H:1187:GLN:HB2	1:H:1191:ILE:HG12	1.68	0.75
1:M:247:VAL:HG21	1:M:264:LEU:HD12	1.66	0.75
1:Q:809:GLU:N	1:Q:809:GLU:OE2	2.19	0.75
1:H:480:HIS:CB	1:H:530:ASP:C	2.54	0.75
1:J:250:ALA:H	1:J:270:GLN:HE22	1.33	0.75
1:J:722:ASP:O	1:J:744:LEU:HG	1.87	0.75
1:L:39:ILE:HG13	1:L:72:MET:HB2	1.68	0.75
1:H:484:MET:HE2	1:H:535:TYR:CE2	2.21	0.75
1:J:688:ARG:HH11	1:J:688:ARG:HB2	1.51	0.75
1:L:1234:HIS:HD2	1:L:1241:PHE:CE1	2.03	0.75
1:Q:616:LEU:HD12	1:Q:635:VAL:HG12	1.68	0.75
1:K:769:ARG:O	1:K:778:TYR:N	2.20	0.75
1:J:803:LEU:N	1:J:803:LEU:HD23	2.02	0.75
1:L:625:LEU:HD11	1:L:667:ILE:O	1.86	0.75
1:J:488:ARG:HD2	1:J:491:PHE:HD2	1.50	0.75
1:O:105:MET:O	1:O:109:GLN:NE2	2.20	0.75
1:O:812:THR:HA	1:O:824:LYS:HB3	1.67	0.75
2:A:10:MET:SD	2:A:14:HIS:ND1	2.59	0.75
1:K:950:TRP:HB2	1:K:955:ASP:HB2	1.67	0.75
1:J:1026:PHE:HB3	1:J:1039:VAL:HG13	1.68	0.75
1:O:729:ASN:HB3	1:O:732:LEU:HB3	1.67	0.75
2:N:45:THR:H	2:N:48:MET:HB2	1.51	0.75
1:Q:620:PHE:HZ	1:Q:661:ASN:C	1.87	0.75
1:K:642:THR:HG22	1:K:649:SER:HA	1.68	0.75
1:J:476:LYS:HD2	1:J:527:TYR:HD1	1.51	0.75
1:L:862:ILE:HG23	1:L:864:CYS:H	1.51	0.75
1:M:250:ALA:O	1:M:254:ASN:ND2	2.20	0.75
1:H:719:LEU:HD23	1:H:751:GLN:CD	2.07	0.74
1:L:930:HIS:HE1	1:L:1234:HIS:HE2	1.34	0.74
1:Q:679:SER:HG	1:Q:702:VAL:N	1.84	0.74
1:H:44:GLU:O	1:H:48:ILE:HG13	1.87	0.74
1:J:688:ARG:HB2	1:J:688:ARG:NH1	2.01	0.74
1:L:946:ARG:HH12	1:L:967:PRO:HA	1.52	0.74
1:L:959:VAL:HG12	1:L:961:THR:HG22	1.67	0.74
1:Q:389:ILE:HA	1:Q:441:ARG:HH12	1.51	0.74
1:Q:637:LEU:CD1	1:Q:658:ALA:H	2.00	0.74
1:Q:708:SER:HB2	1:Q:715:VAL:HB	1.67	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:445:ASP:O	1:I:449:ILE:HG22	1.86	0.74
1:I:968:ASN:HD21	1:I:1009:ILE:CG2	2.00	0.74
1:J:729:ASN:HB2	1:J:735:ALA:C	2.06	0.74
1:J:979:ARG:HB2	1:J:1009:ILE:CD1	2.16	0.74
1:L:643:TYR:HB2	1:L:647:ASP:H	1.52	0.74
1:L:702:VAL:HG12	1:L:720:ASN:HA	1.69	0.74
1:L:1027:ASN:OD1	1:L:1047:THR:HG21	1.86	0.74
1:Q:350:THR:HA	1:Q:353:ILE:HG22	1.68	0.74
1:Q:866:LYS:CG	1:Q:876:LEU:HB2	2.15	0.74
1:I:658:ALA:HB1	1:I:677:LEU:HB2	1.70	0.74
1:H:954:ALA:HB2	1:H:969:VAL:HG21	1.67	0.74
1:J:622:LEU:HD11	1:J:663:GLN:O	1.87	0.74
1:J:803:LEU:CD2	1:J:845:LEU:HA	2.17	0.74
1:Q:680:LEU:HD11	1:Q:696:GLN:HB2	1.70	0.74
1:I:401:VAL:HA	1:I:404:LYS:HE3	1.69	0.74
1:H:617:HIS:O	1:H:635:VAL:HB	1.87	0.74
1:H:664:LYS:HG2	1:H:718:TYR:OH	1.87	0.74
1:J:808:VAL:HG23	1:J:853:ALA:N	2.01	0.74
1:L:1009:ILE:CD1	1:L:1020:ILE:CA	2.63	0.74
1:I:717:PHE:HA	1:I:727:GLU:HG3	1.69	0.74
1:I:770:CYS:SG	1:I:776:LYS:O	2.45	0.74
1:I:977:MET:CE	1:I:1009:ILE:CG2	2.65	0.74
1:Q:620:PHE:CE1	1:Q:661:ASN:O	2.40	0.74
1:Q:810:ASN:ND2	1:Q:810:ASN:O	2.21	0.74
1:K:463:LEU:HD22	1:K:466:TYR:H	1.50	0.74
1:H:154:GLY:O	1:H:322:ARG:CG	2.36	0.74
1:M:1110:GLN:CG	1:M:1122:GLY:HA2	2.18	0.74
2:C:81:GLN:NE2	1:K:25:ASP:O	2.20	0.74
1:Q:153:LEU:HB2	1:Q:267:ARG:HE	1.52	0.74
1:Q:978:THR:HG22	1:Q:988:ASP:O	1.88	0.74
1:J:174:MET:HE3	1:J:241:LEU:H	1.53	0.74
1:L:326:ILE:HD13	1:L:349:LEU:HB3	1.70	0.74
1:L:1062:LYS:CG	1:L:1066:PRO:HA	2.18	0.74
1:M:475:LEU:HD23	1:M:478:ILE:HD11	1.70	0.74
2:D:37:GLU:OE2	2:D:41:GLN:NE2	2.21	0.74
1:J:155:SER:HB3	1:J:157:LYS:HZ1	1.53	0.74
1:J:483:ARG:NH2	1:J:487:PHE:CG	2.56	0.74
1:J:806:PHE:CE1	1:J:813:PRO:CB	2.70	0.74
1:L:783:THR:CG2	1:L:822:ARG:NE	2.51	0.74
1:M:16:LEU:CD1	1:M:65:LEU:HD11	2.17	0.74
1:O:155:SER:H	1:O:157:LYS:HZ3	1.36	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:867:ARG:HG2	1:O:874:LEU:HA	1.70	0.74
1:O:155:SER:HA	1:O:321:PRO:HD2	1.70	0.73
1:O:471:ILE:C	1:O:487:PHE:HZ	1.90	0.73
1:O:475:LEU:HD12	1:O:487:PHE:CD1	2.22	0.73
1:Q:457:ASP:HB3	1:Q:583:ARG:HE	1.53	0.73
1:H:946:ARG:NH2	1:H:964:CYS:SG	2.61	0.73
1:J:671:CYS:HA	1:J:685:PRO:HA	1.70	0.73
1:L:1043:VAL:HG12	1:L:1044:ILE:HG13	1.69	0.73
1:M:890:SER:H	1:M:898:VAL:HG12	1.53	0.73
1:Q:12:TYR:OH	1:Q:77:VAL:HB	1.88	0.73
1:Q:611:ARG:HH12	1:Q:630:ILE:HD13	1.50	0.73
1:I:946:ARG:HG3	1:I:961:THR:HA	1.69	0.73
1:I:977:MET:HE2	1:I:1009:ILE:CG2	2.18	0.73
1:K:785:ASN:ND2	1:K:820:ASP:OD2	2.21	0.73
1:J:479:GLU:HB3	1:J:482:GLU:OE1	1.88	0.73
1:M:824:LYS:HE2	1:M:831:ILE:HG12	1.69	0.73
1:O:216:ASN:HB2	1:O:219:LEU:HB2	1.69	0.73
1:Q:300:LEU:HD22	1:Q:324:LEU:HG	1.69	0.73
1:Q:1147:PHE:O	1:Q:1180:ILE:N	2.21	0.73
1:H:657:MET:N	1:H:657:MET:SD	2.60	0.73
1:H:952:HIS:O	1:H:990:LYS:HE2	1.89	0.73
1:H:952:HIS:HA	1:H:990:LYS:HE3	1.67	0.73
1:J:669:LEU:O	1:J:686:GLY:HA3	1.88	0.73
1:J:675:VAL:HG12	1:J:702:VAL:HG11	1.69	0.73
1:L:669:LEU:HD23	1:L:669:LEU:N	2.00	0.73
1:L:1149:LEU:HB2	1:L:1180:ILE:HA	1.71	0.73
2:B:13:ARG:HH12	2:B:110:ASP:HA	1.53	0.73
1:Q:173:LYS:O	1:Q:239:ASN:ND2	2.21	0.73
1:Q:568:ALA:HB3	1:Q:573:ILE:HD11	1.69	0.73
1:K:979:ARG:NH1	1:K:1007:SER:N	2.35	0.73
1:K:1149:LEU:HA	1:K:1181:CYS:H	1.52	0.73
1:H:954:ALA:N	1:H:990:LYS:NZ	2.35	0.73
1:J:707:GLY:HA2	1:J:716:ALA:HB2	1.69	0.73
1:J:729:ASN:HB2	1:J:735:ALA:CB	2.17	0.73
1:J:830:LEU:HD23	1:J:830:LEU:N	2.02	0.73
1:J:857:PRO:HD2	1:J:866:LYS:HA	1.70	0.73
1:M:382:PRO:HD2	1:M:385:LEU:HD12	1.70	0.73
1:O:219:LEU:O	1:O:220:ARG:NH1	2.21	0.73
1:Q:193:LEU:HG	1:Q:197:GLN:HE22	1.52	0.73
1:I:623:ILE:HG12	1:I:630:ILE:HG12	1.71	0.73
1:J:480:HIS:N	1:J:481:PRO:HD2	2.02	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:771:PHE:HD2	1:O:774:VAL:HB	1.53	0.73
2:B:79:ILE:HG21	2:B:90:LEU:HD21	1.71	0.73
1:Q:624:ALA:HB2	1:Q:629:GLN:HB2	1.71	0.73
1:I:950:TRP:HB2	1:I:955:ASP:HB2	1.70	0.73
1:H:1070:VAL:HA	1:H:1077:GLN:HA	1.70	0.73
1:J:760:VAL:CG2	1:J:769:ARG:H	2.02	0.73
1:M:718:TYR:HB2	1:M:726:PRO:HD2	1.69	0.73
2:N:18:ILE:HD13	2:N:80:THR:HB	1.70	0.73
1:Q:621:CYS:HB2	1:Q:899:SER:H	1.50	0.73
1:Q:888:LYS:HD3	1:Q:898:VAL:CG1	2.13	0.73
1:H:1000:ILE:CA	1:H:1020:ILE:HD11	2.19	0.73
1:H:1052:GLN:OE1	1:H:1058:ILE:HG12	1.87	0.73
1:J:1026:PHE:HB3	1:J:1039:VAL:CG1	2.19	0.73
1:L:1062:LYS:HD3	1:L:1066:PRO:HA	1.67	0.73
1:M:231:LEU:O	1:M:231:LEU:HD23	1.89	0.73
1:O:11:GLN:OE1	1:O:13:LYS:NZ	2.21	0.73
1:Q:644:LEU:CD2	1:Q:897:ASN:HD21	2.01	0.73
1:I:1083:GLN:HE22	1:I:1085:GLU:CB	1.93	0.73
1:Q:659:VAL:CG2	1:Q:678:TRP:HZ3	2.00	0.73
1:I:1018:CYS:N	1:I:1031:ILE:HD11	2.04	0.73
1:H:480:HIS:HB3	1:H:530:ASP:HB2	1.69	0.73
1:J:979:ARG:CG	1:J:1009:ILE:HD13	2.17	0.73
2:G:88:ASN:O	2:G:91:ILE:HB	1.88	0.73
1:Q:866:LYS:HD2	1:Q:876:LEU:CG	2.18	0.73
1:Q:979:ARG:HG3	1:Q:985:LEU:CD2	2.01	0.73
1:H:637:LEU:HG	1:H:676:LYS:HE3	1.70	0.72
1:H:1031:ILE:HB	1:H:1036:VAL:HB	1.70	0.72
1:J:825:THR:HG21	1:J:829:LEU:HD23	1.71	0.72
1:M:270:GLN:N	1:M:407:LYS:O	2.23	0.72
1:O:522:LYS:O	1:O:526:PRO:HG3	1.89	0.72
1:O:525:LYS:HG3	1:O:526:PRO:CD	2.14	0.72
1:I:449:ILE:HG23	1:I:450:PRO:CD	2.19	0.72
1:K:488:ARG:HA	1:K:491:PHE:HD2	1.54	0.72
1:H:997:LYS:CG	1:H:998:PRO:HD3	2.18	0.72
1:J:749:GLN:CB	1:J:759:PRO:O	2.37	0.72
1:I:848:SER:HB2	1:I:856:LEU:HD11	1.71	0.72
1:I:929:VAL:HG21	1:I:970:TYR:O	1.88	0.72
1:H:671:CYS:HA	1:H:685:PRO:HA	1.71	0.72
1:H:968:ASN:HB2	1:H:977:MET:HB2	1.70	0.72
1:H:1237:ARG:HB3	1:H:1242:SER:HB2	1.70	0.72
1:J:675:VAL:HG21	1:J:702:VAL:HG21	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:697:LEU:CB	1:J:722:ASP:OD2	2.30	0.72
1:J:1085:GLU:O	1:J:1105:LYS:NZ	2.21	0.72
1:O:637:LEU:HD11	1:O:658:ALA:O	1.90	0.72
1:O:1053:PHE:HB3	1:O:1057:PRO:HB2	1.71	0.72
1:O:1110:GLN:HB3	1:O:1144:ILE:HD11	1.69	0.72
1:Q:964:CYS:HB3	1:Q:981:ARG:HH22	1.54	0.72
1:K:446:HIS:O	1:K:450:PRO:CG	2.37	0.72
1:H:785:ASN:ND2	1:H:819:PHE:HD2	1.87	0.72
1:J:79:GLU:HA	1:J:82:ARG:HB3	1.70	0.72
1:J:719:LEU:HD13	1:J:725:LEU:HD23	1.70	0.72
1:L:685:PRO:HD2	1:L:689:HIS:N	2.05	0.72
1:M:229:ARG:HA	1:M:232:LEU:CD2	2.20	0.72
1:M:630:ILE:CG1	1:M:644:LEU:HD23	2.15	0.72
1:Q:813:PRO:HD2	1:Q:824:LYS:O	1.90	0.72
1:I:532:ASP:O	1:I:536:GLU:CB	2.37	0.72
1:H:822:ARG:HD3	1:H:824:LYS:HE3	1.72	0.72
1:H:967:PRO:HA	1:H:977:MET:O	1.89	0.72
1:H:1000:ILE:HG13	1:H:1020:ILE:CG1	2.19	0.72
1:J:532:ASP:OD1	1:J:535:TYR:CD2	2.42	0.72
1:J:992:ARG:NH1	1:J:992:ARG:O	2.22	0.72
1:L:771:PHE:O	1:L:775:LEU:N	2.20	0.72
1:Q:877:GLY:HA3	1:Q:916:LYS:HD3	1.71	0.72
1:K:675:VAL:HB	1:K:681:TRP:CE2	2.24	0.72
1:J:21:ASP:OD1	1:J:22:ALA:N	2.23	0.72
1:J:666:LEU:CD2	1:J:730:ILE:HD11	2.20	0.72
1:M:289:SER:OG	1:M:290:MET:SD	2.47	0.72
1:O:752:GLU:HG2	1:O:753:PHE:H	1.54	0.72
1:Q:213:HIS:HB2	1:Q:219:LEU:HD22	1.72	0.72
1:Q:1221:LYS:HG2	1:Q:1224:LEU:HD21	1.72	0.72
1:I:63:TRP:HZ3	1:I:128:LEU:HG	1.55	0.72
1:I:702:VAL:HA	1:I:720:ASN:HA	1.71	0.72
1:K:124:ASN:O	1:K:303:LYS:NZ	2.23	0.72
1:K:1136:LYS:H	1:K:1142:GLU:HA	1.55	0.72
1:H:518:LEU:HD12	1:H:646:ARG:HH21	1.55	0.72
1:J:965:LEU:HD12	1:J:966:GLU:HB2	1.71	0.72
1:J:1244:CYS:SG	1:J:1245:LYS:N	2.63	0.72
1:I:1062:LYS:H	1:I:1066:PRO:HD2	1.54	0.72
1:J:867:ARG:HG2	1:J:874:LEU:HA	1.70	0.72
1:M:762:LYS:HZ2	1:M:768:ILE:HB	1.55	0.72
1:O:483:ARG:NE	1:O:531:ASN:HB3	2.00	0.72
1:O:1237:ARG:HH21	1:O:1241:PHE:HD2	1.36	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:246:ASN:O	1:K:248:GLN:NE2	2.23	0.72
1:H:531:ASN:CB	1:H:536:GLU:OE2	2.36	0.72
1:H:532:ASP:OD2	1:H:535:TYR:HD2	1.72	0.72
1:J:687:ARG:HA	1:J:687:ARG:HH11	1.52	0.72
1:L:625:LEU:HG	1:L:669:LEU:CD2	2.19	0.72
1:O:43:GLU:O	1:O:47:HIS:N	2.23	0.72
1:I:446:HIS:O	1:I:450:PRO:CG	2.37	0.72
1:H:611:ARG:HH22	1:H:630:ILE:CD1	1.99	0.71
1:H:640:GLU:HB3	1:H:651:SER:O	1.90	0.71
1:J:1067:ASN:HD22	1:J:1102:VAL:HG22	1.55	0.71
1:O:489:MET:O	1:O:495:ARG:NH2	2.23	0.71
1:O:1218:GLU:HB2	1:O:1237:ARG:HD2	1.71	0.71
1:O:1219:ASN:HB2	1:O:1238:GLN:NE2	2.04	0.71
1:I:484:MET:CE	1:I:531:ASN:OD1	2.37	0.71
1:I:516:ASN:O	1:I:519:GLN:NE2	2.22	0.71
1:H:970:TYR:HE2	1:H:1011:PRO:HA	1.48	0.71
1:L:44:GLU:HG2	1:L:64:THR:HG21	1.72	0.71
1:L:1234:HIS:HD2	1:L:1241:PHE:HE1	1.38	0.71
1:M:641:ASP:O	1:M:650:ASP:N	2.21	0.71
1:O:246:ASN:O	1:O:248:GLN:NE2	2.23	0.71
1:O:803:LEU:HD22	1:O:846:SER:HB3	1.70	0.71
1:Q:824:LYS:HZ3	1:Q:831:ILE:HD13	1.53	0.71
1:I:988:ASP:OD1	1:I:1031:ILE:HG23	1.90	0.71
1:J:320:ASN:HB2	1:J:323:ARG:HG2	1.71	0.71
1:O:817:ASP:N	1:O:836:VAL:O	2.21	0.71
1:Q:403:ASN:OD1	1:Q:407:LYS:NZ	2.23	0.71
1:Q:622:LEU:CD1	1:Q:665:HIS:CD2	2.73	0.71
1:Q:704:ARG:O	1:Q:719:LEU:HB2	1.91	0.71
1:H:1048:ALA:HB2	1:H:1063:GLN:HE21	1.56	0.71
1:J:620:PHE:HE1	1:J:887:LEU:HD11	1.47	0.71
1:L:1008:THR:H	1:L:1021:ASN:HD21	1.36	0.71
1:O:1234:HIS:HA	1:O:1243:PRO:HG2	1.73	0.71
1:Q:83:ILE:HG13	1:Q:84:ASN:H	1.55	0.71
1:Q:472:GLY:HA2	1:Q:487:PHE:CE1	2.25	0.71
1:Q:630:ILE:HD11	1:Q:644:LEU:CG	2.20	0.71
1:Q:850:GLN:NE2	1:Q:850:GLN:O	2.23	0.71
1:I:360:LEU:HD13	1:I:365:TYR:HB2	1.73	0.71
1:I:995:LEU:O	1:I:995:LEU:HD22	1.91	0.71
1:K:665:HIS:ND1	1:K:666:LEU:O	2.23	0.71
1:H:676:LYS:H	1:H:676:LYS:HD2	1.56	0.71
1:H:683:ASP:H	1:H:694:LYS:HE2	1.55	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:849:LEU:HD22	1:H:890:SER:HB3	1.73	0.71
1:M:1106:TYR:CE2	1:M:1109:LEU:HA	2.26	0.71
1:Q:182:ASN:HA	1:Q:245:LEU:HB2	1.72	0.71
1:Q:611:ARG:HH12	1:Q:630:ILE:CD1	2.02	0.71
1:K:1183:GLU:HB2	1:K:1196:ALA:HB3	1.71	0.71
1:H:1070:VAL:HG22	1:H:1077:GLN:HG2	1.73	0.71
1:L:38:SER:OG	1:L:75:LYS:NZ	2.22	0.71
1:L:665:HIS:CE1	1:L:670:HIS:N	2.58	0.71
1:M:746:TRP:N	1:M:763:THR:HG1	1.87	0.71
2:D:87:TYR:HA	2:D:90:LEU:HG	1.72	0.71
1:I:157:LYS:HE3	1:I:285:LEU:HD12	1.71	0.71
1:I:534:LYS:HZ3	1:I:538:LEU:HD12	1.53	0.71
1:K:269:LYS:HE3	1:K:409:SER:HA	1.73	0.71
1:J:246:ASN:H	1:J:265:THR:HG23	1.55	0.71
1:J:525:LYS:HA	1:J:528:ILE:HG12	1.71	0.71
1:J:743:ILE:CB	1:J:775:LEU:CD2	2.67	0.71
1:M:1062:LYS:O	1:M:1105:LYS:CE	2.32	0.71
1:O:472:GLY:N	1:O:487:PHE:CZ	2.54	0.71
1:Q:620:PHE:CE1	1:Q:661:ASN:C	2.64	0.71
1:Q:673:GLY:HA3	1:Q:683:ASP:HA	1.72	0.71
1:H:1012:THR:HG21	1:H:1018:CYS:CA	2.21	0.71
1:J:52:LYS:HD2	1:J:53:ASP:HB2	1.73	0.71
1:J:680:LEU:HD22	1:J:696:GLN:HB3	1.71	0.71
1:J:1027:ASN:HB2	1:J:1040:ILE:HB	1.73	0.71
1:L:1061:LEU:HD21	1:L:1091:GLN:CB	2.20	0.71
1:O:475:LEU:CD1	1:O:487:PHE:CE1	2.67	0.71
1:Q:488:ARG:HG3	1:Q:491:PHE:HD2	1.56	0.71
1:Q:703:LYS:HE2	1:Q:749:GLN:HG3	1.71	0.71
1:I:713:LYS:HB3	1:I:715:VAL:HG23	1.73	0.71
1:K:1060:TYR:HE2	1:K:1070:VAL:HG21	1.54	0.71
1:H:854:VAL:CG1	1:H:868:SER:CA	2.64	0.71
1:J:132:LEU:HA	1:J:135:ARG:NH1	2.06	0.71
1:J:458:LEU:HD13	1:J:491:PHE:HB3	1.71	0.71
1:L:625:LEU:H	1:L:669:LEU:HD11	1.56	0.71
1:M:1145:VAL:HG23	1:M:1184:GLU:HG2	1.73	0.71
1:I:857:PRO:HA	1:I:867:ARG:H	1.56	0.71
1:L:52:LYS:NZ	1:L:53:ASP:OD1	2.24	0.71
1:L:113:LEU:HD23	1:L:166:LEU:HD23	1.73	0.71
1:M:1106:TYR:HB3	1:M:1110:GLN:HE22	1.54	0.71
1:O:674:SER:H	1:O:682:PRO:HD2	1.55	0.71
1:O:987:VAL:HG23	1:O:999:ALA:HB2	1.73	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:55:LEU:HD23	2:E:59:PRO:HG3	1.72	0.71
1:K:449:ILE:HG23	1:K:450:PRO:CD	2.18	0.71
1:K:783:THR:OG1	1:K:822:ARG:NH2	2.23	0.71
1:J:768:ILE:HG22	1:J:780:VAL:CG1	2.21	0.70
1:L:674:SER:O	1:L:681:TRP:CD1	2.44	0.70
1:M:196:LEU:HD22	1:M:224:ILE:HD12	1.73	0.70
1:K:377:PRO:HA	1:K:427:LEU:HD22	1.73	0.70
1:H:326:ILE:HG21	1:H:349:LEU:HD21	1.74	0.70
1:J:71:GLU:O	1:J:75:LYS:NZ	2.20	0.70
1:J:357:LEU:O	1:J:366:ARG:NH1	2.23	0.70
1:J:808:VAL:HG23	1:J:853:ALA:H	1.51	0.70
1:L:483:ARG:HD3	1:L:530:ASP:O	1.91	0.70
1:M:935:ARG:HE	1:M:1234:HIS:CE1	2.08	0.70
1:M:1108:SER:OG	1:M:1129:ALA:HA	1.91	0.70
1:Q:675:VAL:HG12	1:Q:681:TRP:CG	2.26	0.70
1:K:576:GLU:O	1:K:580:GLN:NE2	2.24	0.70
1:K:928:VAL:HA	1:K:936:SER:HB2	1.72	0.70
1:H:640:GLU:HG2	1:H:652:SER:HA	1.73	0.70
1:J:1062:LYS:HD2	1:J:1066:PRO:HG2	1.72	0.70
1:L:664:LYS:HB3	1:L:664:LYS:HZ2	1.54	0.70
1:O:611:ARG:NH1	1:O:614:VAL:O	2.23	0.70
1:Q:1136:LYS:HD3	1:Q:1190:LYS:HD3	1.72	0.70
1:I:833:LYS:HD3	1:I:872:ARG:HG3	1.73	0.70
1:K:345:ASN:HA	1:K:348:LYS:HE2	1.74	0.70
1:H:1029:GLU:HG2	1:H:1060:TYR:OH	1.90	0.70
1:J:867:ARG:HA	1:J:875:LEU:H	1.55	0.70
1:L:1009:ILE:HD12	1:L:1020:ILE:HG12	1.73	0.70
1:L:1067:ASN:HB3	1:L:1106:TYR:H	1.55	0.70
2:A:50:ARG:HH21	2:A:54:ASP:HB3	1.55	0.70
1:Q:979:ARG:NE	1:Q:985:LEU:HD21	2.05	0.70
1:Q:1052:GLN:HA	1:Q:1058:ILE:HA	1.72	0.70
1:I:81:LEU:HD22	1:I:89:MET:HG3	1.72	0.70
1:I:968:ASN:ND2	1:I:1009:ILE:CG2	2.55	0.70
1:K:20:GLU:HA	1:K:23:PHE:HD2	1.55	0.70
1:J:706:ILE:HG21	1:J:717:PHE:HB2	1.72	0.70
1:J:716:ALA:O	1:J:718:TYR:HD1	1.72	0.70
1:M:980:GLU:HB2	1:M:984:LEU:HB2	1.72	0.70
1:O:845:LEU:HB3	1:O:858:GLU:C	2.11	0.70
1:H:401:VAL:HA	1:H:404:LYS:HE2	1.73	0.70
1:J:1045:HIS:H	1:J:1045:HIS:CD2	2.09	0.70
1:J:1047:THR:HG21	1:J:1062:LYS:HB3	1.72	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:LEU:O	1:L:136:GLN:NE2	2.24	0.70
1:I:746:TRP:N	1:I:763:THR:OG1	2.24	0.70
1:I:990:LYS:HD3	1:I:1011:PRO:CD	2.20	0.70
1:I:1018:CYS:N	1:I:1031:ILE:CD1	2.54	0.70
1:K:1043:VAL:CB	1:K:1062:LYS:HG2	2.06	0.70
1:J:732:LEU:HD12	1:J:736:PHE:HA	1.72	0.70
1:L:353:ILE:HD11	1:L:429:LEU:HD11	1.74	0.70
1:K:1068:ILE:CD1	1:K:1080:VAL:HG22	2.21	0.70
1:H:936:SER:HA	1:H:951:VAL:HG11	0.79	0.70
1:H:1143:TYR:HB2	1:H:1194:LEU:HD12	1.73	0.70
1:H:1181:CYS:SG	1:H:1182:GLU:N	2.64	0.70
1:J:702:VAL:HG12	1:J:705:PHE:HE1	1.56	0.70
1:J:941:ASN:H	1:J:946:ARG:HG2	1.57	0.70
1:L:1227:SER:HB2	1:L:1234:HIS:CE1	2.26	0.70
1:O:317:LEU:HD22	1:O:341:TRP:HE1	1.56	0.70
1:Q:183:LEU:HD12	1:Q:247:VAL:HG22	1.74	0.70
1:I:525:LYS:HG3	1:I:526:PRO:CD	2.18	0.70
1:K:1027:ASN:HB2	1:K:1041:ILE:HG13	1.73	0.70
1:J:753:PHE:O	1:J:756:SER:N	2.24	0.70
1:L:946:ARG:NH1	1:L:967:PRO:HA	2.05	0.70
1:M:227:GLU:OE1	1:M:230:ARG:NH1	2.24	0.70
2:G:50:ARG:HH11	2:G:53:GLN:HB2	1.57	0.70
1:K:127:ARG:HG3	1:K:130:PRO:HD2	1.72	0.70
1:J:524:TYR:C	1:J:526:PRO:HD2	2.12	0.70
1:J:719:LEU:HD11	1:J:744:LEU:HB2	1.74	0.70
1:L:446:HIS:O	1:L:450:PRO:CG	2.39	0.70
1:L:625:LEU:H	1:L:669:LEU:CD1	2.04	0.70
1:M:939:GLY:HA2	1:M:946:ARG:CA	2.21	0.70
2:G:48:MET:HE1	2:G:82:ARG:HD2	1.74	0.70
1:I:329:GLU:O	1:I:333:ASP:N	2.25	0.70
1:H:182:ASN:HA	1:H:245:LEU:HB2	1.73	0.69
1:J:1019:LYS:NZ	1:J:1053:PHE:HB2	2.06	0.69
1:L:1234:HIS:CD2	1:L:1241:PHE:HE1	2.10	0.69
2:C:70:GLU:OE2	2:C:74:ARG:NH2	2.25	0.69
1:Q:888:LYS:HG3	1:Q:898:VAL:CG1	2.21	0.69
1:K:74:GLN:O	1:K:77:VAL:HG13	1.92	0.69
1:K:563:ARG:NH2	1:K:1245:LYS:O	2.23	0.69
1:K:1039:VAL:HG12	1:K:1041:ILE:HD12	1.73	0.69
1:H:521:LEU:HD23	1:H:646:ARG:HH22	1.57	0.69
1:H:989:SER:HB3	1:H:994:HIS:C	2.11	0.69
1:J:762:LYS:CG	1:J:764:MET:HE1	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1067:ASN:HA	1:L:1105:LYS:CB	2.22	0.69
1:M:987:VAL:HB	1:M:997:LYS:HB2	1.74	0.69
1:M:1083:GLN:HA	1:M:1083:GLN:HE21	1.56	0.69
1:O:704:ARG:HD2	1:O:749:GLN:H	1.56	0.69
1:O:970:TYR:HA	1:O:1011:PRO:HB3	1.74	0.69
1:Q:247:VAL:HB	1:Q:266:THR:HB	1.75	0.69
1:I:977:MET:SD	1:I:989:SER:HA	2.32	0.69
1:K:269:LYS:NZ	1:K:411:VAL:O	2.25	0.69
1:K:1068:ILE:HG21	1:K:1080:VAL:CA	2.10	0.69
1:H:725:LEU:HB3	1:H:751:GLN:HE21	1.55	0.69
1:H:751:GLN:H	1:H:758:VAL:HG13	1.56	0.69
1:H:955:ASP:O	1:H:990:LYS:HG3	1.91	0.69
1:J:21:ASP:O	1:J:25:ASP:N	2.25	0.69
1:J:228:LEU:HD23	1:J:231:LEU:HD21	1.74	0.69
1:J:813:PRO:HG2	1:J:824:LYS:CG	2.22	0.69
1:L:685:PRO:HG2	1:L:689:HIS:HB2	1.64	0.69
1:M:48:ILE:HG13	1:M:60:ARG:NH1	2.07	0.69
1:O:143:PRO:HA	1:O:261:LYS:HG3	1.72	0.69
1:O:227:GLU:OE1	1:O:230:ARG:NH2	2.25	0.69
1:Q:611:ARG:NH1	1:Q:630:ILE:CD1	2.54	0.69
1:I:768:ILE:CG1	1:I:777:ARG:HB3	2.21	0.69
1:I:1102:VAL:CG1	1:I:1109:LEU:CD2	2.70	0.69
1:K:183:LEU:O	1:K:248:GLN:NE2	2.25	0.69
1:H:656:ARG:HH12	1:H:680:LEU:CD1	2.01	0.69
1:H:1185:ILE:CD1	1:H:1225:ILE:HA	2.16	0.69
1:J:768:ILE:HG22	1:J:780:VAL:HG13	1.70	0.69
1:L:663:GLN:CG	1:L:674:SER:HA	2.10	0.69
1:L:683:ASP:HB2	1:L:694:LYS:HE2	1.73	0.69
1:L:1061:LEU:HD22	1:L:1091:GLN:HE21	1.55	0.69
1:H:660:PHE:HB3	1:H:676:LYS:O	1.92	0.69
1:J:747:ASP:OD2	1:J:763:THR:HG23	1.93	0.69
1:J:946:ARG:HD2	1:J:977:MET:HB3	1.74	0.69
1:L:978:THR:CG2	1:L:986:ALA:H	2.05	0.69
1:M:360:LEU:HD12	1:M:365:TYR:HB3	1.74	0.69
1:O:534:LYS:HE2	1:O:538:LEU:HD13	1.75	0.69
2:D:19:ARG:NH1	2:D:80:THR:OG1	2.25	0.69
2:E:95:ARG:HH11	2:E:100:LEU:HD22	1.57	0.69
2:F:95:ARG:HH21	2:F:100:LEU:HG	1.56	0.69
1:Q:275:LEU:HD12	1:Q:280:THR:HG21	1.73	0.69
1:H:844:GLY:HA3	1:H:885:TYR:HB3	1.73	0.69
1:J:769:ARG:NH1	1:J:824:LYS:CD	2.55	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:952:HIS:NE2	1:J:1244:CYS:SG	2.66	0.69
1:J:1070:VAL:HG22	1:J:1077:GLN:HA	1.75	0.69
1:L:611:ARG:NH1	1:L:642:THR:OG1	2.26	0.69
1:M:154:GLY:CA	1:M:157:LYS:HZ3	2.05	0.69
1:M:1106:TYR:CB	1:M:1110:GLN:NE2	2.54	0.69
1:I:987:VAL:HA	1:I:999:ALA:HB2	1.75	0.69
1:K:1061:LEU:HD11	1:K:1090:LEU:HA	1.73	0.69
1:K:1154:LEU:O	1:K:1163:ILE:N	2.25	0.69
1:H:357:LEU:O	1:H:366:ARG:NH2	2.25	0.69
1:L:516:ASN:O	1:L:520:GLN:NE2	2.26	0.69
1:M:380:HIS:HB2	1:M:465:GLN:OE1	1.92	0.69
1:O:857:PRO:HG2	1:O:865:GLY:O	1.93	0.69
1:O:880:GLU:OE2	1:O:907:ILE:CG2	2.41	0.69
1:Q:227:GLU:OE1	1:Q:230:ARG:NH1	2.26	0.69
1:Q:675:VAL:HB	1:Q:681:TRP:HB2	1.74	0.69
1:Q:680:LEU:HD11	1:Q:696:GLN:CB	2.23	0.69
1:I:977:MET:HE2	1:I:1009:ILE:HG21	1.74	0.69
1:H:371:ARG:HH12	1:H:441:ARG:HH11	1.41	0.69
1:H:681:TRP:HA	1:H:681:TRP:CE3	2.27	0.69
1:H:1028:ASP:HB3	1:H:1039:VAL:HA	1.73	0.69
1:J:488:ARG:CZ	1:J:491:PHE:CD2	2.74	0.69
1:J:1012:THR:OG1	1:J:1053:PHE:CD2	2.45	0.69
1:L:152:VAL:O	1:L:157:LYS:NZ	2.23	0.69
1:L:769:ARG:HH21	1:L:779:TYR:HB2	1.58	0.69
1:L:927:GLN:HG3	1:L:968:ASN:HA	1.73	0.69
1:M:52:LYS:HZ3	1:M:61:LEU:N	1.91	0.69
1:M:702:VAL:N	1:M:721:GLU:OE1	2.25	0.69
1:O:85:TYR:HA	2:N:82:ARG:HH12	1.57	0.69
1:O:532:ASP:CG	1:O:533:PRO:CD	2.61	0.69
1:O:656:ARG:HD3	1:O:676:LYS:HE2	1.73	0.69
1:O:1061:LEU:HD12	1:O:1091:GLN:HG3	1.73	0.69
1:Q:1136:LYS:HB2	1:Q:1141:GLU:HA	1.75	0.69
1:I:675:VAL:HG13	1:I:679:SER:HA	1.74	0.69
1:I:836:VAL:O	1:I:867:ARG:NH2	2.24	0.69
1:I:849:LEU:HD22	1:I:890:SER:HB3	1.73	0.69
1:I:999:ALA:HA	1:I:1030:GLN:HG2	1.74	0.69
1:I:1126:LEU:HD11	1:I:1144:ILE:HG21	1.75	0.69
1:K:150:ASP:N	1:K:283:ILE:O	2.23	0.69
1:K:174:MET:HE2	1:K:177:LYS:HB2	1.75	0.69
1:K:965:LEU:HB2	1:K:979:ARG:HD2	1.74	0.69
1:H:349:LEU:HD23	1:H:352:ILE:HD11	1.73	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:674:SER:O	1:J:682:PRO:CD	2.41	0.69
1:J:1047:THR:HB	1:J:1062:LYS:HA	1.74	0.69
1:L:783:THR:HG21	1:L:822:ARG:HE	1.57	0.69
1:L:835:SER:HB3	1:L:872:ARG:HA	1.73	0.69
1:M:229:ARG:HA	1:M:232:LEU:HD23	1.75	0.69
1:M:260:CYS:SG	1:M:261:LYS:N	2.66	0.69
1:M:536:GLU:HA	1:M:539:VAL:HG22	1.73	0.69
1:J:675:VAL:HG21	1:J:702:VAL:CG2	2.23	0.69
1:L:1027:ASN:HB2	1:L:1040:ILE:O	1.93	0.69
1:M:727:GLU:O	1:M:736:PHE:N	2.20	0.69
1:Q:621:CYS:SG	1:Q:900:GLU:HG2	2.33	0.69
1:I:443:ILE:HG12	1:I:477:ASN:OD1	1.93	0.69
1:K:503:HIS:HA	1:K:516:ASN:ND2	2.08	0.69
1:K:1111:GLU:O	1:K:1120:ASP:N	2.26	0.69
1:K:1131:PRO:CD	1:K:1145:VAL:O	2.38	0.69
1:H:924:LYS:HE3	1:H:1239:LEU:HB3	1.74	0.68
1:H:1010:THR:CB	1:H:1011:PRO:CD	2.71	0.68
1:J:118:GLN:O	1:J:122:LYS:NZ	2.24	0.68
1:J:803:LEU:HD22	1:J:845:LEU:HA	1.75	0.68
1:J:1012:THR:CA	1:J:1053:PHE:CE2	2.69	0.68
1:J:1101:ASP:HB2	1:J:1112:GLY:H	1.58	0.68
1:I:48:ILE:HG13	1:I:60:ARG:HH12	1.57	0.68
1:M:627:SER:C	1:M:644:LEU:HD12	2.14	0.68
1:M:975:MET:SD	1:M:992:ARG:NH1	2.66	0.68
1:O:523:PHE:O	1:O:527:TYR:CD2	2.42	0.68
1:Q:447:TYR:HB2	1:Q:478:ILE:HD13	1.74	0.68
1:H:819:PHE:H	1:H:836:VAL:HG11	1.57	0.68
1:H:1000:ILE:CB	1:H:1020:ILE:HD11	2.22	0.68
1:J:813:PRO:CG	1:J:824:LYS:CG	2.71	0.68
1:L:218:LYS:O	1:L:222:HIS:ND1	2.26	0.68
1:L:748:GLU:OE1	1:L:804:HIS:N	2.27	0.68
1:I:1064:VAL:HA	1:I:1105:LYS:NZ	2.07	0.68
1:K:623:ILE:HG23	1:K:644:LEU:HD21	1.75	0.68
1:H:997:LYS:CB	1:H:998:PRO:HD2	2.08	0.68
1:L:77:VAL:HG13	1:L:78:GLU:HG3	1.75	0.68
1:L:1061:LEU:HD22	1:L:1091:GLN:CG	2.20	0.68
1:M:625:LEU:H	1:M:669:LEU:HD11	1.57	0.68
1:I:57:GLY:O	1:I:60:ARG:NH1	2.27	0.68
1:I:1180:ILE:O	1:I:1220:ARG:NH2	2.26	0.68
1:K:456:ASP:OD1	1:K:457:ASP:N	2.26	0.68
1:K:534:LYS:HE2	1:K:537:ARG:HH21	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:637:LEU:HG	1:K:654:ILE:HD11	1.75	0.68
1:K:757:HIS:HA	1:K:772:VAL:HB	1.75	0.68
1:H:484:MET:HE3	1:H:490:VAL:HG21	1.76	0.68
1:H:1083:GLN:OE1	1:H:1110:GLN:HB2	1.92	0.68
1:L:685:PRO:HG3	1:L:689:HIS:CA	2.22	0.68
1:O:665:HIS:HA	1:O:672:ASN:HA	1.76	0.68
2:C:22:LEU:HD21	2:C:73:ARG:HG3	1.76	0.68
1:H:618:ASN:ND2	1:H:904:CYS:HA	2.09	0.68
1:H:748:GLU:HB3	1:H:804:HIS:HE2	1.57	0.68
1:L:940:SER:CA	1:L:946:ARG:CD	2.54	0.68
1:M:18:VAL:O	1:M:169:LYS:NZ	2.26	0.68
1:M:136:GLN:OE1	1:M:139:LEU:HD21	1.93	0.68
2:N:17:HIS:HE1	2:N:106:LEU:HA	1.58	0.68
2:G:37:GLU:HG2	2:G:97:ILE:HD11	1.74	0.68
1:Q:964:CYS:HB3	1:Q:981:ARG:NH2	2.09	0.68
1:Q:978:THR:CG2	1:Q:988:ASP:O	2.40	0.68
1:I:280:THR:OG1	1:I:282:HIS:NE2	2.27	0.68
1:K:72:MET:HE3	1:K:75:LYS:HG3	1.75	0.68
1:K:576:GLU:HG3	1:K:580:GLN:HE22	1.58	0.68
1:K:1068:ILE:HD11	1:K:1077:GLN:HB3	1.76	0.68
1:H:713:LYS:HB3	1:H:715:VAL:HG23	1.76	0.68
1:J:336:ALA:HB3	1:J:339:ASP:HB2	1.76	0.68
1:J:675:VAL:CG2	1:J:702:VAL:CG2	2.71	0.68
1:J:769:ARG:HH12	1:J:824:LYS:CD	2.07	0.68
1:L:155:SER:H	1:L:157:LYS:HZ2	1.42	0.68
1:L:685:PRO:CG	1:L:689:HIS:CA	2.70	0.68
1:L:696:GLN:OE1	1:L:696:GLN:N	2.25	0.68
1:M:761:LEU:CD1	1:M:815:ALA:HA	2.23	0.68
2:G:95:ARG:NH2	2:G:107:GLU:OE2	2.26	0.68
1:Q:969:VAL:HB	1:Q:977:MET:HG3	1.75	0.68
1:K:727:GLU:O	1:K:736:PHE:N	2.27	0.68
1:K:946:ARG:NH1	1:K:961:THR:OG1	2.26	0.68
1:H:220:ARG:O	1:H:224:ILE:HD12	1.93	0.68
1:J:381:ILE:N	1:J:420:ILE:O	2.25	0.68
1:J:660:PHE:CE1	1:J:676:LYS:CE	2.77	0.68
1:L:280:THR:OG1	1:L:282:HIS:NE2	2.25	0.68
1:M:52:LYS:NZ	1:M:57:GLY:O	2.22	0.68
1:M:496:PHE:HA	1:M:499:GLN:HE21	1.57	0.68
1:Q:1019:LYS:HD2	1:Q:1058:ILE:HD13	1.73	0.68
1:I:703:LYS:NZ	1:I:746:TRP:O	2.20	0.68
1:K:752:GLU:N	1:K:757:HIS:O	2.26	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:353:ILE:HD11	1:J:426:TYR:HA	1.75	0.68
1:L:101:MET:O	1:L:105:MET:SD	2.51	0.68
1:L:132:LEU:HD12	1:L:135:ARG:HH22	1.59	0.68
1:L:1062:LYS:HD2	1:L:1062:LYS:H	1.58	0.68
1:M:44:GLU:OE1	1:M:60:ARG:NH1	2.27	0.68
1:M:1136:LYS:NZ	1:M:1193:TYR:OH	2.25	0.68
2:G:58:LYS:HZ2	1:Q:656:ARG:HH11	1.40	0.68
1:Q:681:TRP:CD2	1:Q:705:PHE:CE1	2.81	0.68
1:K:23:PHE:O	1:K:27:PHE:N	2.27	0.68
1:H:625:LEU:H	1:H:669:LEU:HD11	1.59	0.68
1:H:727:GLU:O	1:H:736:PHE:N	2.26	0.68
1:H:841:PHE:HE1	1:H:843:PRO:HB3	1.59	0.68
1:J:704:ARG:HD3	1:J:706:ILE:HD12	1.75	0.68
1:J:728:ALA:C	1:J:735:ALA:HB1	2.13	0.68
1:M:624:ALA:HB3	1:M:629:GLN:H	1.58	0.68
2:F:91:ILE:HG12	2:F:106:LEU:HD23	1.75	0.68
1:H:683:ASP:H	1:H:694:LYS:CE	2.07	0.67
1:H:954:ALA:HA	1:H:976:ASP:OD2	1.94	0.67
1:J:349:LEU:HD23	1:J:352:ILE:HD11	1.76	0.67
1:J:714:ILE:HG23	1:J:730:ILE:HD12	1.67	0.67
1:L:178:ILE:HA	1:L:241:LEU:HB3	1.75	0.67
1:O:822:ARG:NH2	1:O:846:SER:OG	2.20	0.67
1:O:1108:SER:HA	1:O:1130:ASN:HD22	1.59	0.67
1:I:686:GLY:O	1:I:687:ARG:N	2.26	0.67
1:I:968:ASN:CB	1:I:990:LYS:HE3	2.21	0.67
1:K:52:LYS:HD2	1:K:53:ASP:N	2.08	0.67
1:H:1000:ILE:HA	1:H:1020:ILE:HD11	1.76	0.67
1:J:152:VAL:O	1:J:157:LYS:NZ	2.26	0.67
1:J:329:GLU:OE2	1:J:332:ARG:NH1	2.27	0.67
1:J:979:ARG:CB	1:J:1009:ILE:CD1	2.72	0.67
1:L:934:LEU:HB2	1:L:950:TRP:HE3	1.60	0.67
1:L:1110:GLN:HA	1:L:1110:GLN:NE2	2.08	0.67
1:M:193:LEU:O	1:M:197:GLN:NE2	2.27	0.67
1:O:338:TRP:HA	1:O:341:TRP:HB3	1.77	0.67
1:O:815:ALA:HA	1:O:822:ARG:HD2	1.75	0.67
2:B:23:ASN:OD1	2:B:24:ILE:N	2.26	0.67
1:Q:216:ASN:HB3	1:Q:218:LYS:HG3	1.75	0.67
1:Q:657:MET:CB	1:Q:676:LYS:CE	2.56	0.67
1:Q:878:THR:HG23	1:Q:889:ILE:HB	1.77	0.67
1:I:995:LEU:C	1:I:995:LEU:HD13	2.14	0.67
1:K:16:LEU:HD23	1:K:65:LEU:HD21	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:538:LEU:HG	1:K:571:GLU:HG2	1.76	0.67
1:H:854:VAL:HG13	1:H:868:SER:CA	2.21	0.67
1:H:1019:LYS:HA	1:H:1029:GLU:HA	1.76	0.67
1:J:140:GLU:OE2	1:J:142:ARG:NH2	2.27	0.67
1:J:476:LYS:HD2	1:J:527:TYR:CD1	2.28	0.67
1:J:1100:MET:SD	1:J:1111:GLU:OE1	2.53	0.67
1:L:385:LEU:CD1	1:L:466:TYR:CD2	2.78	0.67
1:L:941:ASN:ND2	1:L:963:ALA:HB1	2.09	0.67
1:L:970:TYR:HB2	1:L:975:MET:HB3	1.76	0.67
1:M:761:LEU:CD1	1:M:804:HIS:CG	2.74	0.67
1:M:1106:TYR:HB2	1:M:1110:GLN:HE22	1.59	0.67
1:K:968:ASN:HD22	1:K:1010:THR:HB	1.58	0.67
1:H:23:PHE:HD1	1:H:27:PHE:CD1	2.13	0.67
1:H:447:TYR:HB2	1:H:478:ILE:HD13	1.77	0.67
1:H:785:ASN:HB2	1:H:836:VAL:HG22	1.76	0.67
1:J:488:ARG:HD2	1:J:491:PHE:CD2	2.29	0.67
1:J:1083:GLN:NE2	1:J:1101:ASP:HB3	2.07	0.67
1:L:101:MET:O	1:L:105:MET:HE2	1.94	0.67
1:L:227:GLU:OE2	1:L:230:ARG:NH2	2.27	0.67
1:M:246:ASN:H	1:M:265:THR:HG23	1.59	0.67
2:E:48:MET:SD	2:E:78:LYS:NZ	2.60	0.67
1:Q:548:LYS:O	1:Q:607:ASP:N	2.26	0.67
1:Q:618:ASN:ND2	1:Q:901:HIS:H	1.91	0.67
1:Q:630:ILE:HG21	1:Q:632:LEU:HD22	1.76	0.67
1:Q:702:VAL:HG12	1:Q:705:PHE:HE2	1.58	0.67
1:K:227:GLU:OE1	1:K:230:ARG:NH2	2.27	0.67
1:H:849:LEU:HD11	1:H:866:LYS:HD2	1.77	0.67
1:H:989:SER:HB3	1:H:994:HIS:HA	1.73	0.67
1:J:345:ASN:HA	1:J:348:LYS:HG2	1.77	0.67
1:J:476:LYS:CD	1:J:527:TYR:HD1	2.06	0.67
1:J:807:ASN:HB2	1:J:812:THR:CG2	2.19	0.67
1:J:992:ARG:HH21	1:J:996:ILE:HA	1.59	0.67
1:M:1084:LEU:HD23	1:M:1106:TYR:HB3	1.75	0.67
1:O:817:ASP:HB3	1:O:836:VAL:HG13	1.77	0.67
1:Q:12:TYR:CD1	1:Q:96:GLN:HG3	2.29	0.67
1:Q:680:LEU:CG	1:Q:696:GLN:CB	2.51	0.67
1:Q:849:LEU:HG	1:Q:854:VAL:O	1.95	0.67
1:K:36:PRO:O	1:K:39:ILE:N	2.24	0.67
1:H:660:PHE:HB3	1:H:676:LYS:C	2.15	0.67
1:H:1185:ILE:HD13	1:H:1225:ILE:CA	2.18	0.67
1:J:345:ASN:HA	1:J:348:LYS:CG	2.23	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:734:VAL:HG13	1:J:737:ILE:H	1.60	0.67
1:L:1024:SER:HB3	1:L:1026:PHE:CD2	2.30	0.67
1:L:1109:LEU:C	1:L:1109:LEU:HD13	2.15	0.67
1:L:1149:LEU:HD12	1:L:1180:ILE:N	2.10	0.67
1:M:229:ARG:O	1:M:232:LEU:HG	1.95	0.67
1:M:562:LEU:HD22	1:M:581:VAL:HB	1.77	0.67
1:Q:632:LEU:HD11	1:Q:906:ASP:OD2	1.94	0.67
1:Q:946:ARG:HD3	1:Q:990:LYS:HD2	1.75	0.67
1:I:76:PHE:HA	1:I:80:VAL:HB	1.76	0.67
1:I:676:LYS:HE2	1:I:678:TRP:HB2	1.75	0.67
1:K:101:MET:O	1:K:105:MET:HG2	1.95	0.67
1:L:531:ASN:OD1	1:L:536:GLU:CG	2.41	0.67
1:M:48:ILE:HG12	1:M:52:LYS:CD	2.25	0.67
1:M:746:TRP:HA	1:M:762:LYS:HG2	1.77	0.67
1:M:824:LYS:HG2	1:M:831:ILE:HA	1.75	0.67
1:Q:664:LYS:HD3	1:Q:681:TRP:CH2	2.29	0.67
1:Q:849:LEU:HD23	1:Q:855:GLN:HA	1.76	0.67
1:H:1218:GLU:HG2	1:H:1219:ASN:H	1.58	0.67
1:M:1106:TYR:HE2	1:M:1109:LEU:CD1	2.03	0.67
1:M:1110:GLN:HG3	1:M:1122:GLY:HA2	1.77	0.67
2:N:55:LEU:HD12	2:N:57:GLY:H	1.60	0.67
1:I:866:LYS:NZ	1:I:878:THR:OG1	2.28	0.67
1:H:381:ILE:N	1:H:420:ILE:O	2.28	0.67
1:H:617:HIS:N	1:H:635:VAL:HG21	2.10	0.67
1:H:1071:ALA:N	1:H:1076:ALA:O	2.26	0.67
1:H:1190:LYS:HG3	1:H:1193:TYR:H	1.59	0.67
1:J:631:LEU:HD11	1:J:663:GLN:NE2	2.10	0.67
1:M:619:ASP:HB2	1:M:634:ASP:HA	1.77	0.67
1:M:762:LYS:HB2	1:M:764:MET:SD	2.34	0.67
1:Q:10:TYR:O	1:Q:96:GLN:NE2	2.28	0.67
1:Q:1091:GLN:HG2	1:Q:1103:SER:HA	1.76	0.67
1:I:768:ILE:CD1	1:I:777:ARG:HB3	2.25	0.67
1:K:815:ALA:HB3	1:K:822:ARG:HB2	1.77	0.67
1:H:969:VAL:HA	1:H:992:ARG:HH21	1.60	0.67
1:J:743:ILE:CG1	1:J:775:LEU:HD22	2.25	0.67
1:M:148:LEU:HD22	1:M:282:HIS:HD2	1.60	0.67
1:O:766:SER:HB3	1:O:785:ASN:HA	1.77	0.67
1:Q:870:ASP:O	1:Q:872:ARG:N	2.27	0.67
1:I:188:SER:HB3	1:I:191:THR:HG23	1.77	0.67
1:I:781:VAL:HG21	1:I:822:ARG:HH12	1.58	0.67
1:I:868:SER:O	1:I:872:ARG:N	2.28	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1018:CYS:O	1:I:1029:GLU:CA	2.39	0.67
1:J:620:PHE:CD2	1:J:662:GLN:CB	2.67	0.66
2:N:10:MET:SD	2:N:15:ARG:NH1	2.68	0.66
1:H:124:ASN:ND2	1:H:163:ASP:OD1	2.29	0.66
1:J:629:GLN:CD	1:J:641:ASP:HB3	2.16	0.66
1:L:769:ARG:NH2	1:L:779:TYR:HB2	2.10	0.66
1:L:771:PHE:CE1	1:L:773:GLN:OE1	2.47	0.66
1:O:25:ASP:O	2:N:81:GLN:NE2	2.28	0.66
2:B:14:HIS:HB3	2:B:87:TYR:HE2	1.59	0.66
1:H:676:LYS:HD2	1:H:676:LYS:N	2.11	0.66
1:H:704:ARG:HG2	1:H:718:TYR:HA	1.76	0.66
1:L:563:ARG:NH1	1:L:1244:CYS:O	2.28	0.66
2:D:59:PRO:HB3	2:D:62:MET:HB3	1.77	0.66
1:H:466:TYR:O	1:H:470:HIS:ND1	2.28	0.66
1:J:183:LEU:HD11	1:J:244:LEU:HD12	1.76	0.66
1:J:336:ALA:N	1:J:340:ASN:OD1	2.29	0.66
1:J:360:LEU:HD12	1:J:365:TYR:HB3	1.77	0.66
1:J:1120:ASP:OD1	1:J:1121:HIS:ND1	2.27	0.66
1:O:729:ASN:OD1	1:O:730:ILE:N	2.28	0.66
1:K:105:MET:O	1:K:109:GLN:NE2	2.27	0.66
1:K:200:LEU:HD21	1:K:207:TRP:HB2	1.77	0.66
1:H:480:HIS:HA	1:H:530:ASP:OD2	1.95	0.66
1:H:1000:ILE:HA	1:H:1020:ILE:CD1	2.25	0.66
1:J:761:LEU:HA	1:J:766:SER:O	1.94	0.66
1:J:930:HIS:ND1	1:J:971:LEU:O	2.29	0.66
1:J:1083:GLN:OE1	1:J:1103:SER:HB3	1.96	0.66
1:L:178:ILE:HG23	1:L:241:LEU:HD23	1.78	0.66
1:L:483:ARG:HH11	1:L:531:ASN:HB3	1.53	0.66
1:L:752:GLU:HG3	1:L:757:HIS:H	1.60	0.66
1:L:977:MET:HG2	1:L:1009:ILE:CG2	2.24	0.66
1:L:1040:ILE:HG21	1:L:1072:SER:HB2	1.76	0.66
1:L:1069:LEU:HB2	1:L:1079:THR:OG1	1.96	0.66
2:F:90:LEU:HD22	2:F:106:LEU:HD22	1.78	0.66
1:Q:495:ARG:HH22	1:Q:549:ILE:HG23	1.60	0.66
1:Q:1020:ILE:HB	1:Q:1028:ASP:HB2	1.77	0.66
1:K:752:GLU:O	1:K:756:SER:N	2.29	0.66
1:J:320:ASN:OD1	1:J:425:ILE:HG21	1.96	0.66
1:L:868:SER:N	1:L:873:TYR:O	2.21	0.66
1:L:1123:VAL:HG13	1:L:1125:HIS:CE1	2.30	0.66
1:M:136:GLN:O	1:M:139:LEU:HG	1.95	0.66
1:M:204:ASP:OD1	1:M:206:ASN:ND2	2.28	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:319:THR:H	1:M:323:ARG:NH2	1.94	0.66
1:O:883:ILE:O	1:O:885:TYR:N	2.26	0.66
2:G:22:LEU:HD21	2:G:73:ARG:HG3	1.76	0.66
1:Q:127:ARG:HD2	1:Q:160:VAL:HG22	1.78	0.66
1:J:761:LEU:HD22	1:J:804:HIS:HD2	1.58	0.66
1:O:703:LYS:HD2	1:O:747:ASP:HA	1.77	0.66
1:O:1218:GLU:HG2	1:O:1237:ARG:HG3	1.78	0.66
1:Q:644:LEU:HD22	1:Q:897:ASN:OD1	1.94	0.66
1:Q:681:TRP:HZ3	1:Q:718:TYR:CE1	2.13	0.66
1:K:1221:LYS:HD3	1:K:1224:LEU:HD11	1.77	0.66
1:J:702:VAL:HG12	1:J:705:PHE:CE1	2.31	0.66
1:J:756:SER:O	1:J:772:VAL:HB	1.95	0.66
1:J:829:LEU:HD22	1:J:829:LEU:N	2.08	0.66
1:M:658:ALA:N	1:M:678:TRP:HH2	1.92	0.66
1:M:682:PRO:HA	1:M:693:SER:HA	1.76	0.66
1:O:360:LEU:HD13	1:O:365:TYR:HB2	1.77	0.66
2:B:50:ARG:NH2	2:B:53:GLN:OE1	2.29	0.66
1:Q:72:MET:HG3	1:Q:76:PHE:CE2	2.31	0.66
1:Q:1019:LYS:HE3	1:Q:1058:ILE:HG21	1.76	0.66
1:I:406:HIS:ND1	1:I:411:VAL:O	2.26	0.66
1:K:1027:ASN:CB	1:K:1041:ILE:HG13	2.26	0.66
1:H:148:LEU:HD11	1:H:150:ASP:HB3	1.78	0.66
1:L:1024:SER:CB	1:L:1026:PHE:CE2	2.79	0.66
1:Q:273:ASP:O	1:I:122:LYS:NZ	2.29	0.66
1:I:1029:GLU:OE2	1:I:1031:ILE:HD11	1.96	0.66
1:I:1053:PHE:HA	1:I:1058:ILE:HG12	1.77	0.66
1:K:16:LEU:CD2	1:K:65:LEU:HD22	2.26	0.66
1:H:666:LEU:HD12	1:H:670:HIS:HB3	1.78	0.66
1:J:620:PHE:CD1	1:J:887:LEU:HD12	2.28	0.66
1:J:643:TYR:H	1:J:647:ASP:HA	1.61	0.66
1:J:734:VAL:HG22	1:J:737:ILE:HA	1.78	0.66
1:J:1111:GLU:O	1:J:1120:ASP:N	2.29	0.66
1:M:886:ASP:HB2	1:M:901:HIS:HA	1.78	0.66
1:O:1136:LYS:HE3	1:O:1141:GLU:HB3	1.77	0.66
2:C:26:VAL:HA	2:C:72:HIS:HD2	1.61	0.66
1:K:822:ARG:NH1	1:K:834:TYR:OH	2.29	0.66
1:H:69:GLN:HG3	1:H:72:MET:HE1	1.77	0.65
1:H:126:SER:HA	1:H:131:TYR:HE2	1.61	0.65
1:M:642:THR:HG22	1:M:649:SER:HA	1.78	0.65
1:M:746:TRP:N	1:M:762:LYS:HB3	2.11	0.65
1:O:637:LEU:HD13	1:O:658:ALA:O	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:987:VAL:O	1:O:992:ARG:NH1	2.29	0.65
2:A:95:ARG:HH21	2:A:100:LEU:HA	1.60	0.65
2:B:43:ILE:O	2:B:82:ARG:NH1	2.29	0.65
1:Q:616:LEU:HB3	1:Q:635:VAL:HB	1.76	0.65
1:K:1136:LYS:HE2	1:K:1143:TYR:HE1	1.61	0.65
1:K:1231:VAL:O	1:K:1245:LYS:NZ	2.27	0.65
1:J:536:GLU:OE1	1:J:536:GLU:HA	1.96	0.65
1:J:1048:ALA:C	1:J:1050:PRO:HD3	2.16	0.65
1:J:1083:GLN:HE22	1:J:1101:ASP:CB	2.09	0.65
1:L:823:SER:O	1:L:832:PHE:N	2.22	0.65
1:M:271:VAL:HA	1:M:274:PHE:HE1	1.61	0.65
1:O:488:ARG:HA	1:O:491:PHE:HD2	1.61	0.65
1:Q:807:ASN:HD22	1:Q:855:GLN:HE21	1.38	0.65
1:K:621:CYS:SG	1:K:632:LEU:HD23	2.35	0.65
1:J:476:LYS:CD	1:J:527:TYR:CD1	2.78	0.65
1:L:850:GLN:NE2	1:L:891:ASP:O	2.25	0.65
1:L:1042:ASP:O	1:L:1045:HIS:HD2	1.80	0.65
1:M:770:CYS:HA	1:M:777:ARG:HA	1.78	0.65
1:O:1143:TYR:HD1	1:O:1153:LEU:HD22	1.60	0.65
1:K:117:ASN:HB2	1:K:120:PHE:HB3	1.78	0.65
1:J:722:ASP:C	1:J:744:LEU:CD1	2.64	0.65
1:J:757:HIS:HE1	1:J:778:TYR:CG	2.15	0.65
1:L:85:TYR:HB3	1:L:88:LEU:HD13	1.77	0.65
1:M:908:TYR:O	1:M:916:LYS:NZ	2.28	0.65
1:O:659:VAL:HG21	1:O:677:LEU:HD11	1.78	0.65
1:O:659:VAL:HB	1:O:677:LEU:HG	1.79	0.65
2:A:45:THR:H	2:A:48:MET:HB2	1.61	0.65
1:Q:516:ASN:O	1:Q:519:GLN:NE2	2.28	0.65
1:I:127:ARG:HG3	1:I:130:PRO:HD2	1.78	0.65
1:I:986:ALA:C	1:I:999:ALA:HB2	2.17	0.65
1:I:1102:VAL:HG11	1:I:1109:LEU:CD2	2.26	0.65
1:K:48:ILE:HG12	1:K:61:LEU:HD23	1.76	0.65
1:K:57:GLY:O	1:K:61:LEU:HG	1.97	0.65
1:K:127:ARG:HD3	1:K:292:LEU:HD13	1.78	0.65
1:K:447:TYR:O	1:K:450:PRO:HD2	1.97	0.65
1:K:483:ARG:NH1	1:K:528:ILE:O	2.30	0.65
1:H:143:PRO:HA	1:H:261:LYS:HB3	1.77	0.65
1:H:929:VAL:HG12	1:H:936:SER:OG	1.96	0.65
1:H:970:TYR:CD2	1:H:1011:PRO:CA	2.78	0.65
1:J:825:THR:H	1:J:832:PHE:HB2	1.60	0.65
1:L:824:LYS:HE2	1:L:831:ILE:HG12	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:48:ILE:HG12	1:M:52:LYS:HD3	1.77	0.65
1:M:768:ILE:HG12	1:M:780:VAL:HG12	1.79	0.65
1:M:880:GLU:OE2	1:M:916:LYS:NZ	2.23	0.65
1:O:472:GLY:CA	1:O:487:PHE:HZ	1.99	0.65
1:K:168:TYR:HB3	1:K:169:LYS:NZ	2.12	0.65
1:K:898:VAL:HB	1:K:908:TYR:HD1	1.61	0.65
1:H:484:MET:CE	1:H:490:VAL:HG21	2.27	0.65
1:H:979:ARG:HG3	1:H:1007:SER:OG	1.96	0.65
1:J:56:SER:HB3	1:J:128:LEU:HD21	1.77	0.65
1:J:985:LEU:HG	1:J:987:VAL:H	1.60	0.65
1:L:685:PRO:HG3	1:L:689:HIS:HB2	0.70	0.65
1:M:920:LEU:HB3	1:M:1241:PHE:HA	1.78	0.65
1:O:1041:ILE:HG22	1:O:1043:VAL:HG12	1.79	0.65
1:O:1227:SER:N	1:O:1232:HIS:O	2.30	0.65
1:I:270:GLN:HB3	1:I:407:LYS:HG3	1.79	0.65
1:I:769:ARG:NH2	1:I:825:THR:O	2.30	0.65
1:H:965:LEU:CD1	1:H:979:ARG:O	2.45	0.65
1:H:1030:GLN:HE21	1:H:1030:GLN:CA	2.08	0.65
1:J:672:ASN:O	1:J:684:CYS:N	2.30	0.65
1:J:762:LYS:CG	1:J:764:MET:CE	2.75	0.65
1:O:184:LYS:NZ	1:O:185:ASN:OD1	2.29	0.65
1:O:440:HIS:HA	1:O:443:ILE:HG22	1.78	0.65
1:O:481:PRO:O	1:O:484:MET:HE2	1.95	0.65
2:D:43:ILE:HG22	2:D:44:LEU:HD12	1.79	0.65
1:Q:153:LEU:HB3	1:Q:267:ARG:HB3	1.79	0.65
1:I:660:PHE:CE1	1:I:676:LYS:HG2	2.31	0.65
1:K:1019:LYS:HE3	1:K:1058:ILE:HD12	1.77	0.65
1:H:951:VAL:HG13	1:H:953:SER:H	1.61	0.65
1:J:725:LEU:CD1	1:J:742:SER:O	2.45	0.65
1:J:761:LEU:CD2	1:J:804:HIS:HD2	2.09	0.65
1:L:124:ASN:O	1:L:303:LYS:NZ	2.30	0.65
1:L:143:PRO:HA	1:L:261:LYS:HG3	1.77	0.65
1:L:1153:LEU:HB2	1:L:1165:VAL:HG12	1.79	0.65
1:Q:193:LEU:O	1:Q:197:GLN:NE2	2.29	0.65
1:Q:616:LEU:HG	1:Q:636:SER:OG	1.97	0.65
1:I:177:LYS:HD2	1:I:240:CYS:HB3	1.78	0.65
1:I:463:LEU:HD22	1:I:466:TYR:H	1.61	0.65
1:J:51:SER:HB3	1:J:60:ARG:HH21	1.61	0.65
1:J:488:ARG:NE	1:J:491:PHE:CD2	2.63	0.65
1:J:768:ILE:HA	1:J:779:TYR:O	1.96	0.65
1:M:761:LEU:HD12	1:M:804:HIS:CE1	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:481:PRO:HA	1:O:484:MET:HE2	1.76	0.65
1:I:181:LEU:HD11	1:I:199:LEU:HD21	1.79	0.65
1:I:405:LEU:CG	1:I:410:LEU:HD21	2.27	0.65
1:I:1019:LYS:HZ3	1:I:1052:GLN:HG3	1.60	0.65
1:I:1135:VAL:HA	1:I:1142:GLU:HA	1.77	0.65
1:K:1042:ASP:OD2	1:K:1060:TYR:CE2	2.50	0.65
1:K:1237:ARG:HG3	1:K:1239:LEU:H	1.62	0.65
1:H:1067:ASN:OD1	1:H:1091:GLN:NE2	2.27	0.65
1:J:729:ASN:H	1:J:735:ALA:CB	1.95	0.65
1:L:1009:ILE:CD1	1:L:1020:ILE:CG1	2.74	0.65
2:D:87:TYR:O	2:D:91:ILE:N	2.30	0.65
1:Q:616:LEU:HD12	1:Q:635:VAL:C	2.16	0.65
1:Q:628:GLY:C	1:Q:644:LEU:HD12	2.16	0.65
1:Q:753:PHE:CZ	1:Q:810:ASN:ND2	2.65	0.65
1:Q:862:ILE:HG21	1:Q:886:ASP:HA	1.78	0.65
1:I:90:SER:HG	1:I:91:PRO:HD3	1.60	0.65
1:H:936:SER:CB	1:H:951:VAL:HG11	2.27	0.64
1:J:803:LEU:HD22	1:J:845:LEU:CA	2.27	0.64
1:L:681:TRP:CH2	1:L:705:PHE:CB	2.80	0.64
1:M:977:MET:HA	1:M:987:VAL:HA	1.79	0.64
1:O:443:ILE:HG13	1:O:478:ILE:HG23	1.78	0.64
1:O:659:VAL:CG2	1:O:677:LEU:HD11	2.27	0.64
1:Q:369:PHE:HZ	1:Q:426:TYR:HB3	1.62	0.64
1:I:751:GLN:HA	1:I:758:VAL:HG22	1.79	0.64
1:K:660:PHE:HA	1:K:676:LYS:HG2	1.78	0.64
1:O:204:ASP:OD1	1:O:206:ASN:ND2	2.27	0.64
1:Q:622:LEU:HD12	1:Q:663:GLN:NE2	2.11	0.64
1:Q:637:LEU:HD11	1:Q:658:ALA:H	1.61	0.64
1:H:183:LEU:HD12	1:H:247:VAL:HA	1.77	0.64
1:L:204:ASP:OD1	1:L:206:ASN:ND2	2.26	0.64
1:L:757:HIS:ND1	1:L:771:PHE:HA	2.11	0.64
1:M:1083:GLN:HA	1:M:1083:GLN:NE2	2.11	0.64
1:O:656:ARG:HD2	1:O:676:LYS:NZ	2.11	0.64
1:Q:728:ALA:HB2	1:Q:735:ALA:HA	1.77	0.64
1:Q:927:GLN:HB2	1:Q:968:ASN:HB2	1.80	0.64
1:Q:1226:TYR:HA	1:Q:1233:GLU:HA	1.79	0.64
1:I:642:THR:HG22	1:I:649:SER:HA	1.78	0.64
1:K:865:GLY:HA2	1:K:877:GLY:HA2	1.80	0.64
1:H:665:HIS:ND1	1:H:672:ASN:HB3	2.13	0.64
1:H:954:ALA:HB2	1:H:969:VAL:HG23	1.77	0.64
1:J:769:ARG:CZ	1:J:824:LYS:HD2	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:910:LEU:O	1:J:914:VAL:HG23	1.97	0.64
2:A:15:ARG:NH1	2:A:80:THR:O	2.31	0.64
2:E:52:THR:O	2:E:74:ARG:NH1	2.30	0.64
1:Q:305:LEU:HD13	1:Q:332:ARG:HB2	1.78	0.64
1:Q:621:CYS:CB	1:Q:899:SER:C	2.63	0.64
1:I:643:TYR:HD2	1:I:646:ARG:H	1.43	0.64
1:I:1064:VAL:HG21	1:I:1084:LEU:O	1.98	0.64
1:K:1020:ILE:HB	1:K:1028:ASP:OD1	1.97	0.64
1:H:333:ASP:HB3	1:O:403:ASN:HD21	1.61	0.64
1:J:101:MET:HA	1:J:104:ARG:HB2	1.79	0.64
1:L:82:ARG:HH21	1:L:93:LYS:HE2	1.61	0.64
1:L:537:ARG:HA	1:L:540:ASN:HD21	1.62	0.64
1:M:620:PHE:HA	1:M:887:LEU:HD12	1.80	0.64
1:O:769:ARG:HB3	1:O:778:TYR:HB2	1.80	0.64
1:I:142:ARG:HB3	1:I:145:LYS:HB2	1.80	0.64
1:I:1109:LEU:HD21	1:I:1133:ALA:CB	2.26	0.64
1:K:133:LYS:HE3	1:K:283:ILE:HD12	1.80	0.64
1:K:287:HIS:HB3	1:K:290:MET:HG2	1.79	0.64
1:H:728:ALA:HB2	1:H:735:ALA:HA	1.80	0.64
1:H:811:ASP:O	1:H:826:ALA:N	2.26	0.64
1:H:989:SER:CB	1:H:994:HIS:O	2.45	0.64
1:J:640:GLU:HG2	1:J:652:SER:HB2	1.80	0.64
1:J:979:ARG:HG2	1:J:1009:ILE:CD1	2.28	0.64
1:L:41:SER:O	1:L:43:GLU:N	2.30	0.64
1:M:16:LEU:HD13	1:M:65:LEU:HD11	1.80	0.64
1:O:72:MET:HA	1:O:75:LYS:HE2	1.78	0.64
2:F:15:ARG:NH1	2:F:80:THR:O	2.31	0.64
2:G:49:LEU:HD12	1:Q:32:VAL:HA	1.80	0.64
1:Q:525:LYS:HG2	1:Q:543:LEU:HD11	1.79	0.64
1:I:676:LYS:HD2	1:I:678:TRP:HD1	1.63	0.64
1:I:989:SER:CA	1:I:993:ILE:HG21	2.27	0.64
1:K:456:ASP:O	1:K:583:ARG:NH1	2.31	0.64
1:J:82:ARG:O	1:J:82:ARG:NE	2.29	0.64
1:J:622:LEU:HD12	1:J:663:GLN:HG2	1.80	0.64
1:L:1126:LEU:O	1:L:1126:LEU:HD13	1.97	0.64
1:M:154:GLY:N	1:M:157:LYS:HZ3	1.95	0.64
1:M:620:PHE:CD2	1:M:887:LEU:HD11	2.33	0.64
1:M:719:LEU:HA	1:M:725:LEU:HD22	1.80	0.64
1:O:822:ARG:HA	1:O:835:SER:HA	1.77	0.64
2:B:71:GLN:O	2:B:74:ARG:HB2	1.97	0.64
1:Q:664:LYS:HE3	1:Q:664:LYS:C	2.17	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:443:ILE:CG1	1:I:477:ASN:OD1	2.46	0.64
1:I:1070:VAL:HA	1:I:1077:GLN:HA	1.79	0.64
1:K:56:SER:OG	1:K:60:ARG:NH2	2.30	0.64
1:K:879:SER:HB3	1:K:918:ILE:HD11	1.78	0.64
1:L:246:ASN:O	1:L:248:GLN:NE2	2.31	0.64
1:M:1061:LEU:CD1	1:M:1103:SER:OG	2.46	0.64
1:O:480:HIS:CB	1:O:483:ARG:HH22	2.11	0.64
1:O:896:SER:HA	1:O:910:LEU:HA	1.80	0.64
1:Q:631:LEU:HD12	1:Q:665:HIS:CE1	2.32	0.64
1:I:752:GLU:CD	1:I:757:HIS:HB3	2.18	0.64
1:I:988:ASP:OD1	1:I:1031:ILE:HA	1.96	0.64
1:K:445:ASP:O	1:K:449:ILE:HG22	1.97	0.64
1:K:706:ILE:HD11	1:K:751:GLN:HB2	1.80	0.64
1:H:989:SER:HB3	1:H:994:HIS:O	1.96	0.64
1:J:641:ASP:O	1:J:649:SER:HB3	1.98	0.64
1:J:656:ARG:CZ	1:J:676:LYS:HG2	2.28	0.64
1:L:1061:LEU:CA	1:L:1066:PRO:CB	2.50	0.64
1:M:483:ARG:HH21	1:M:528:ILE:HA	1.62	0.64
1:Q:816:LEU:HD11	1:Q:846:SER:HB2	1.80	0.64
1:Q:866:LYS:HG3	1:Q:876:LEU:C	2.18	0.64
1:H:617:HIS:HB2	1:H:635:VAL:HG22	1.66	0.64
1:H:1010:THR:CB	1:H:1011:PRO:HD3	2.27	0.64
1:J:813:PRO:CG	1:J:824:LYS:H	2.08	0.64
1:J:880:GLU:OE2	1:J:909:GLU:HB2	1.98	0.64
1:L:688:ARG:NH1	1:L:688:ARG:HB2	2.13	0.64
1:L:783:THR:C	1:L:785:ASN:H	2.02	0.64
1:M:769:ARG:O	1:M:778:TYR:N	2.28	0.64
2:F:95:ARG:HH22	2:F:103:ALA:HB3	1.63	0.64
1:Q:854:VAL:HG13	1:Q:868:SER:HA	1.79	0.64
1:I:183:LEU:O	1:I:248:GLN:NE2	2.31	0.64
1:K:463:LEU:HD23	1:K:465:GLN:H	1.63	0.64
1:K:825:THR:OG1	1:K:830:LEU:N	2.28	0.64
1:K:1052:GLN:O	1:K:1093:ASN:ND2	2.31	0.64
1:H:966:GLU:O	1:H:978:THR:HG22	1.97	0.63
1:O:1134:PHE:HB3	1:O:1143:TYR:HB2	1.79	0.63
1:Q:488:ARG:HB2	1:Q:494:PHE:HB2	1.79	0.63
1:Q:857:PRO:CG	1:Q:865:GLY:O	2.46	0.63
1:I:488:ARG:HG3	1:I:491:PHE:HD2	1.62	0.63
1:H:99:PRO:O	1:H:104:ARG:NE	2.31	0.63
1:H:891:ASP:HB3	1:H:892:PRO:HD2	1.80	0.63
1:L:22:ALA:O	1:L:26:ASN:ND2	2.31	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:966:GLU:OE1	1:L:977:MET:HG2	1.98	0.63
1:M:850:GLN:NE2	1:M:891:ASP:O	2.31	0.63
1:M:968:ASN:HD21	1:M:1009:ILE:HG21	1.63	0.63
1:O:1219:ASN:HB3	1:O:1238:GLN:NE2	2.11	0.63
2:D:29:THR:OG1	2:D:72:HIS:NE2	2.31	0.63
1:Q:680:LEU:HG	1:Q:696:GLN:CA	2.29	0.63
1:K:13:LYS:NZ	1:K:68:LYS:O	2.30	0.63
1:K:625:LEU:H	1:K:669:LEU:HD11	1.63	0.63
1:K:968:ASN:HB3	1:K:1010:THR:CB	2.28	0.63
1:H:990:LYS:HD2	1:H:990:LYS:C	2.19	0.63
1:L:181:LEU:HB3	1:L:244:LEU:HD13	1.80	0.63
1:L:760:VAL:N	1:L:768:ILE:O	2.32	0.63
1:M:502:ARG:NH2	1:M:503:HIS:O	2.31	0.63
1:Q:12:TYR:OH	1:Q:77:VAL:CB	2.45	0.63
1:I:12:TYR:N	1:I:70:GLU:OE2	2.28	0.63
1:I:483:ARG:HH11	1:I:484:MET:HE1	1.63	0.63
1:I:787:THR:HB	1:I:816:LEU:HB3	1.80	0.63
1:H:1136:LYS:HD3	1:H:1141:GLU:HB2	1.81	0.63
1:J:968:ASN:ND2	1:J:988:ASP:O	2.30	0.63
1:J:1146:GLY:H	1:J:1150:LYS:HG2	1.64	0.63
1:L:181:LEU:HD12	1:L:199:LEU:HD21	1.79	0.63
1:L:685:PRO:HG2	1:L:689:HIS:CB	2.26	0.63
1:O:304:TYR:HB3	1:O:332:ARG:HH22	1.64	0.63
2:D:29:THR:HG1	2:D:72:HIS:HE2	1.45	0.63
1:K:476:LYS:HZ3	1:K:527:TYR:HA	1.64	0.63
1:K:1067:ASN:ND2	1:K:1091:GLN:HB2	2.14	0.63
1:H:975:MET:N	1:H:992:ARG:HB3	2.14	0.63
1:J:1054:ILE:HD13	1:J:1058:ILE:O	1.98	0.63
1:L:674:SER:HB2	1:L:682:PRO:HD2	1.81	0.63
1:L:805:VAL:HG11	1:L:848:SER:H	1.64	0.63
1:L:966:GLU:OE1	1:L:977:MET:CG	2.47	0.63
1:M:633:THR:HB	1:M:660:PHE:HD2	1.62	0.63
1:O:665:HIS:ND1	1:O:666:LEU:O	2.31	0.63
1:O:1104:THR:HB	1:O:1130:ASN:HB3	1.80	0.63
2:B:12:LYS:HA	2:B:15:ARG:HD3	1.80	0.63
1:Q:659:VAL:CG2	1:Q:678:TRP:CZ3	2.74	0.63
1:Q:1018:CYS:N	1:Q:1030:GLN:O	2.31	0.63
1:K:706:ILE:HG13	1:K:717:PHE:HB2	1.80	0.63
1:K:929:VAL:HG11	1:K:971:LEU:CD2	2.28	0.63
1:K:1187:GLN:HB3	1:K:1193:TYR:HA	1.79	0.63
1:H:704:ARG:HB3	1:H:718:TYR:HD1	0.72	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:716:ALA:HB1	1:J:718:TYR:CE1	2.32	0.63
1:J:1012:THR:CA	1:J:1053:PHE:HD2	1.96	0.63
1:J:1091:GLN:O	1:J:1091:GLN:HG2	1.97	0.63
1:L:625:LEU:HD11	1:L:669:LEU:CD2	2.16	0.63
1:O:401:VAL:O	1:O:405:LEU:HG	1.99	0.63
1:O:656:ARG:HD2	1:O:676:LYS:HZ1	1.64	0.63
2:E:55:LEU:HD12	2:E:74:ARG:HD3	1.79	0.63
1:K:910:LEU:O	1:K:914:VAL:HG23	1.98	0.63
1:K:1149:LEU:HD21	1:K:1167:ARG:NH2	2.13	0.63
1:H:785:ASN:HD22	1:H:836:VAL:HG21	1.64	0.63
1:H:954:ALA:CA	1:H:990:LYS:HZ1	2.11	0.63
1:H:987:VAL:HG21	1:H:996:ILE:HG21	1.78	0.63
1:L:165:CYS:O	1:L:171:GLN:NE2	2.32	0.63
1:M:61:LEU:O	1:M:65:LEU:CD2	2.41	0.63
1:M:193:LEU:HG	1:M:197:GLN:HE22	1.63	0.63
1:M:868:SER:O	1:M:872:ARG:N	2.32	0.63
1:O:15:ILE:HD12	1:O:95:GLU:HG3	1.79	0.63
1:O:611:ARG:NH1	1:O:904:CYS:O	2.28	0.63
1:I:246:ASN:O	1:I:248:GLN:NE2	2.32	0.63
1:I:451:LYS:HZ1	1:I:486:LEU:HD21	1.64	0.63
1:I:633:THR:HG22	1:I:639:GLY:HA2	1.80	0.63
1:I:1199:ASP:N	1:I:1219:ASN:OD1	2.31	0.63
1:K:692:GLY:O	1:K:694:LYS:N	2.31	0.63
1:H:235:LYS:HG3	1:H:236:PRO:HD3	1.81	0.63
1:H:977:MET:HA	1:H:987:VAL:HG12	1.81	0.63
1:J:39:ILE:HB	1:J:72:MET:HB3	1.81	0.63
1:J:127:ARG:HB2	1:J:130:PRO:HD2	1.81	0.63
1:L:141:LEU:O	1:L:261:LYS:NZ	2.32	0.63
1:L:609:GLU:HB2	1:L:908:TYR:HB3	1.80	0.63
1:L:688:ARG:HG3	1:L:688:ARG:O	1.96	0.63
1:O:174:MET:O	1:O:177:LYS:NZ	2.30	0.63
1:O:349:LEU:HD23	1:O:352:ILE:HD11	1.79	0.63
1:Q:622:LEU:HD13	1:Q:665:HIS:CE1	2.25	0.63
1:Q:703:LYS:O	1:Q:705:PHE:CD2	2.52	0.63
1:I:970:TYR:CZ	1:I:991:GLU:CG	2.80	0.63
1:K:173:LYS:O	1:K:239:ASN:ND2	2.32	0.63
1:K:387:SER:HA	1:K:398:VAL:HG21	1.81	0.63
1:H:617:HIS:C	1:H:635:VAL:HG21	2.18	0.63
1:H:926:LYS:HE3	1:H:937:VAL:HG11	1.81	0.63
1:H:930:HIS:NE2	1:H:1227:SER:CB	2.47	0.63
1:J:106:TYR:CE2	1:J:171:GLN:HB3	2.30	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:149:ILE:HG22	1:J:283:ILE:HB	1.81	0.63
1:O:857:PRO:HD2	1:O:866:LYS:HA	1.81	0.63
1:O:895:ARG:HA	1:O:911:PHE:HB3	1.80	0.63
1:Q:979:ARG:HD3	1:Q:985:LEU:HD21	1.76	0.63
1:H:719:LEU:HB3	1:H:726:PRO:HD2	1.79	0.62
1:H:1019:LYS:HA	1:H:1029:GLU:CB	2.29	0.62
1:J:35:MET:CE	1:J:39:ILE:H	2.10	0.62
1:J:182:ASN:HB2	1:J:184:LYS:HD3	1.79	0.62
1:J:453:PHE:HB3	1:J:462:TYR:HE1	1.62	0.62
1:J:761:LEU:CG	1:J:804:HIS:HD2	2.12	0.62
1:L:99:PRO:O	1:L:104:ARG:NE	2.32	0.62
1:M:81:LEU:HD22	1:M:89:MET:HB3	1.80	0.62
1:O:656:ARG:CD	1:O:676:LYS:HE2	2.27	0.62
1:Q:808:VAL:HG22	1:Q:808:VAL:O	1.99	0.62
1:I:671:CYS:HA	1:I:684:CYS:O	1.98	0.62
1:H:190:GLU:O	1:H:194:GLU:HG2	1.99	0.62
1:J:200:LEU:O	1:J:204:ASP:N	2.27	0.62
1:J:752:GLU:HG2	1:J:757:HIS:HB3	1.80	0.62
1:L:447:TYR:O	1:L:450:PRO:HD2	2.00	0.62
1:M:382:PRO:HG3	1:M:463:LEU:HD13	1.79	0.62
1:O:26:ASN:OD1	1:O:27:PHE:N	2.31	0.62
1:O:471:ILE:CG2	1:O:487:PHE:CZ	2.67	0.62
2:E:33:ARG:HG3	2:E:97:ILE:HD12	1.80	0.62
1:Q:916:LYS:HE2	1:Q:920:LEU:HD12	1.80	0.62
1:I:376:PRO:HG2	1:I:470:HIS:CD2	2.33	0.62
1:K:127:ARG:NH2	1:K:289:SER:O	2.32	0.62
1:J:525:LYS:N	1:J:526:PRO:CD	2.62	0.62
1:J:562:LEU:HD22	1:J:581:VAL:HB	1.79	0.62
1:J:760:VAL:CG2	1:J:769:ARG:N	2.62	0.62
1:L:213:HIS:N	1:L:220:ARG:HD2	2.12	0.62
1:M:1106:TYR:HD2	1:M:1109:LEU:CA	2.08	0.62
1:O:543:LEU:HA	1:O:546:LEU:HD12	1.81	0.62
1:Q:900:GLU:HG3	1:Q:900:GLU:O	1.99	0.62
1:I:40:LEU:HD21	1:I:45:ILE:HD12	1.82	0.62
1:I:968:ASN:HD22	1:I:990:LYS:HG3	1.63	0.62
1:H:480:HIS:CB	1:H:530:ASP:O	2.47	0.62
1:H:656:ARG:NH2	1:H:680:LEU:HD12	2.13	0.62
1:H:683:ASP:O	1:H:691:GLY:HA2	1.99	0.62
1:J:946:ARG:HH11	1:J:977:MET:HA	1.64	0.62
1:J:1098:LEU:N	1:J:1098:LEU:HD22	2.13	0.62
1:L:846:SER:HA	1:L:857:PRO:HA	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:617:HIS:ND1	1:M:902:ILE:O	2.33	0.62
1:Q:55:VAL:HG11	1:Q:135:ARG:HH21	1.64	0.62
1:Q:340:ASN:O	1:Q:345:ASN:ND2	2.31	0.62
1:Q:663:GLN:CG	1:Q:674:SER:HB2	2.29	0.62
1:Q:849:LEU:HD21	1:Q:854:VAL:C	2.20	0.62
1:K:244:LEU:HB2	1:K:264:LEU:HG	1.80	0.62
1:K:804:HIS:HA	1:K:814:LEU:HB3	1.81	0.62
1:K:818:VAL:HG12	1:K:819:PHE:HD1	1.64	0.62
1:K:1191:ILE:HG22	1:K:1192:SER:H	1.65	0.62
1:L:1068:ILE:CD1	1:L:1077:GLN:NE2	2.63	0.62
1:M:935:ARG:HE	1:M:1234:HIS:HE1	1.45	0.62
1:O:203:ILE:HG21	1:O:231:LEU:HD13	1.80	0.62
1:Q:684:CYS:HB2	1:Q:685:PRO:CD	2.29	0.62
1:K:115:ASN:O	1:K:118:GLN:NE2	2.32	0.62
1:K:156:GLY:HA2	1:K:159:TRP:CD1	2.34	0.62
1:K:1060:TYR:CD2	1:K:1070:VAL:HG21	2.35	0.62
1:H:468:TYR:CE2	1:H:501:ILE:HD13	2.35	0.62
1:H:483:ARG:HD2	1:H:530:ASP:OD1	1.99	0.62
1:H:975:MET:N	1:H:992:ARG:CB	2.63	0.62
1:L:127:ARG:HD3	1:L:292:LEU:HG	1.81	0.62
1:L:338:TRP:HA	1:L:341:TRP:HB3	1.81	0.62
1:L:671:CYS:HA	1:L:684:CYS:O	1.98	0.62
1:O:103:THR:O	1:O:107:ILE:HG12	2.00	0.62
1:O:280:THR:OG1	1:O:282:HIS:NE2	2.29	0.62
1:O:1218:GLU:HB2	1:O:1237:ARG:CD	2.29	0.62
1:J:377:PRO:HA	1:J:427:LEU:HD22	1.80	0.62
1:L:483:ARG:HH12	1:L:531:ASN:CG	2.03	0.62
1:M:127:ARG:NH2	1:M:291:THR:O	2.25	0.62
1:M:167:SER:O	1:M:171:GLN:NE2	2.33	0.62
1:O:1218:GLU:HG2	1:O:1239:LEU:H	1.64	0.62
1:I:483:ARG:HG3	1:I:487:PHE:CE2	2.34	0.62
1:I:719:LEU:HD22	1:I:749:GLN:HB2	1.81	0.62
1:H:956:GLU:HA	1:H:990:LYS:HG3	1.80	0.62
1:J:760:VAL:HG23	1:J:769:ARG:H	1.62	0.62
1:J:950:TRP:HB2	1:J:955:ASP:HB2	1.82	0.62
1:L:964:CYS:SG	1:L:980:GLU:CG	2.88	0.62
1:L:1066:PRO:HD2	1:L:1106:TYR:O	1.99	0.62
2:E:70:GLU:HA	2:E:73:ARG:HG2	1.80	0.62
1:I:410:LEU:HD12	1:I:410:LEU:C	2.20	0.62
1:I:752:GLU:CB	1:I:757:HIS:HB3	2.28	0.62
1:K:69:GLN:HE22	1:K:71:GLU:HB3	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:140:GLU:OE2	1:K:142:ARG:NH2	2.32	0.62
1:K:968:ASN:HB3	1:K:1010:THR:OG1	2.00	0.62
1:H:470:HIS:HB3	1:H:474:HIS:CE1	2.35	0.62
1:H:1231:VAL:HB	1:H:1246:LEU:HD22	1.81	0.62
1:J:523:PHE:O	1:J:526:PRO:HG2	1.99	0.62
1:J:1047:THR:CG2	1:J:1062:LYS:HB3	2.27	0.62
1:L:948:ILE:HB	1:L:957:ILE:HG13	1.82	0.62
1:O:659:VAL:HG21	1:O:677:LEU:CD1	2.30	0.62
1:O:672:ASN:ND2	1:O:684:CYS:O	2.29	0.62
2:N:95:ARG:HD3	2:N:100:LEU:HD22	1.82	0.62
2:D:54:ASP:O	2:D:74:ARG:NH1	2.33	0.62
2:E:31:TYR:HB3	2:E:68:ARG:HH21	1.64	0.62
1:Q:12:TYR:HE2	1:Q:73:VAL:HG12	1.65	0.62
1:Q:23:PHE:HA	1:Q:27:PHE:HB2	1.81	0.62
1:Q:849:LEU:HD11	1:Q:854:VAL:HB	1.82	0.62
1:K:260:CYS:SG	1:K:261:LYS:N	2.73	0.62
1:H:620:PHE:CD1	1:H:901:HIS:CE1	2.88	0.62
1:H:1066:PRO:HB3	1:H:1082:PHE:HA	1.82	0.62
1:J:170:VAL:O	1:J:174:MET:N	2.30	0.62
1:J:803:LEU:HD13	1:J:843:PRO:HB2	1.81	0.62
1:J:895:ARG:O	1:J:911:PHE:N	2.28	0.62
1:J:1194:LEU:HB3	1:J:1202:MET:SD	2.40	0.62
1:L:681:TRP:HH2	1:L:705:PHE:HB3	1.62	0.62
1:L:836:VAL:O	1:L:867:ARG:NH2	2.32	0.62
1:M:300:LEU:O	1:M:303:LYS:HG2	2.00	0.62
1:M:319:THR:H	1:M:323:ARG:HH21	1.47	0.62
1:M:449:ILE:HG23	1:M:450:PRO:HD3	1.82	0.62
2:F:70:GLU:HA	2:F:73:ARG:HB2	1.82	0.62
1:Q:637:LEU:HB3	1:Q:654:ILE:HD12	1.80	0.62
1:Q:849:LEU:CD2	1:Q:855:GLN:CA	2.67	0.62
1:I:447:TYR:C	1:I:450:PRO:HD2	2.20	0.62
1:K:319:THR:H	1:K:323:ARG:NH1	1.98	0.62
1:J:1084:LEU:HD13	1:J:1105:LYS:HB3	1.81	0.61
1:M:923:ALA:HB3	1:M:926:LYS:HE2	1.82	0.61
2:F:52:THR:O	2:F:74:ARG:NE	2.25	0.61
1:Q:376:PRO:HG2	1:Q:470:HIS:ND1	2.15	0.61
1:Q:635:VAL:O	1:Q:635:VAL:HG12	2.00	0.61
1:Q:679:SER:HB2	1:Q:696:GLN:HE22	1.65	0.61
1:I:371:ARG:HB3	1:I:389:ILE:HG12	1.80	0.61
1:I:532:ASP:CB	1:I:533:PRO:HD3	2.24	0.61
1:K:260:CYS:HB3	1:K:262:ILE:HG23	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:771:PHE:N	1:K:776:LYS:O	2.31	0.61
1:H:946:ARG:NE	1:H:964:CYS:SG	2.73	0.61
1:J:1019:LYS:NZ	1:J:1053:PHE:CB	2.63	0.61
1:M:884:VAL:HB	1:M:902:ILE:HD12	1.80	0.61
1:O:149:ILE:HG13	1:O:265:THR:HA	1.82	0.61
1:O:561:LEU:HD12	1:O:564:ILE:HD11	1.82	0.61
1:O:1218:GLU:OE1	1:O:1237:ARG:NE	2.34	0.61
1:O:1232:HIS:ND1	1:O:1245:LYS:O	2.33	0.61
2:C:33:ARG:HG3	2:C:97:ILE:HD12	1.82	0.61
1:Q:36:PRO:HG2	1:Q:39:ILE:HB	1.82	0.61
1:Q:127:ARG:HD3	1:Q:130:PRO:HG2	1.82	0.61
1:K:1233:GLU:O	1:K:1234:HIS:ND1	2.33	0.61
1:H:51:SER:O	1:H:53:ASP:N	2.32	0.61
1:H:617:HIS:C	1:H:635:VAL:CG2	2.69	0.61
1:J:179:PHE:HB2	1:J:242:LEU:HG	1.82	0.61
1:J:442:SER:O	1:J:446:HIS:ND1	2.20	0.61
1:J:499:GLN:HB2	1:J:520:GLN:HE22	1.65	0.61
1:J:806:PHE:CD1	1:J:813:PRO:CA	2.82	0.61
1:L:927:GLN:NE2	1:L:929:VAL:HG13	2.11	0.61
1:M:154:GLY:HA2	1:M:157:LYS:HE2	1.81	0.61
1:O:132:LEU:HG	1:O:136:GLN:HE22	1.65	0.61
1:O:676:LYS:NZ	1:O:680:LEU:HB2	2.15	0.61
1:O:879:SER:HB3	1:O:882:LEU:HD11	1.80	0.61
1:I:45:ILE:O	1:I:48:ILE:HG22	1.99	0.61
1:I:727:GLU:O	1:I:736:PHE:N	2.33	0.61
1:K:376:PRO:HG2	1:K:470:HIS:HD2	1.65	0.61
1:K:929:VAL:CG1	1:K:971:LEU:CD2	2.78	0.61
1:K:1000:ILE:O	1:K:1030:GLN:NE2	2.33	0.61
1:J:734:VAL:HG22	1:J:734:VAL:O	2.00	0.61
1:J:743:ILE:CB	1:J:775:LEU:HD22	2.30	0.61
1:J:743:ILE:CD1	1:J:775:LEU:HD13	2.29	0.61
1:J:866:LYS:O	1:J:875:LEU:N	2.33	0.61
1:L:1149:LEU:HD12	1:L:1180:ILE:CA	2.31	0.61
1:M:656:ARG:HB2	1:M:676:LYS:NZ	2.15	0.61
2:A:39:VAL:HG21	2:A:49:LEU:HD23	1.81	0.61
1:Q:703:LYS:O	1:Q:705:PHE:CE2	2.53	0.61
1:K:1070:VAL:HG12	1:K:1072:SER:H	1.65	0.61
1:H:38:SER:OG	1:H:75:LYS:NZ	2.33	0.61
1:H:484:MET:HE2	1:H:535:TYR:OH	1.97	0.61
1:J:106:TYR:CD2	1:J:176:PHE:CE2	2.70	0.61
1:J:688:ARG:NH1	1:J:688:ARG:O	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:707:GLY:HA2	1:J:716:ALA:HB1	1.83	0.61
1:J:979:ARG:CB	1:J:1009:ILE:HD11	2.31	0.61
1:J:1058:ILE:O	1:J:1058:ILE:HG22	2.00	0.61
1:L:26:ASN:HB2	2:B:81:GLN:HG2	1.81	0.61
1:O:849:LEU:HD11	1:O:890:SER:HB3	1.81	0.61
2:C:29:THR:OG1	2:C:72:HIS:NE2	2.33	0.61
1:Q:616:LEU:HD12	1:Q:635:VAL:CG1	2.29	0.61
1:Q:675:VAL:H	1:Q:681:TRP:HD1	1.48	0.61
1:I:157:LYS:HA	1:I:160:VAL:HG22	1.83	0.61
1:I:360:LEU:HD11	1:I:366:ARG:HB3	1.81	0.61
1:I:658:ALA:HB3	1:I:676:LYS:HB3	1.82	0.61
1:I:996:ILE:HD13	1:I:996:ILE:N	2.15	0.61
1:K:218:LYS:O	1:K:222:HIS:ND1	2.33	0.61
1:J:480:HIS:CG	1:J:481:PRO:HD3	2.36	0.61
1:J:813:PRO:CG	1:J:824:LYS:HG3	2.31	0.61
1:J:934:LEU:HB2	1:J:950:TRP:CE3	2.35	0.61
1:Q:618:ASN:HA	1:Q:634:ASP:OD1	2.01	0.61
1:Q:866:LYS:N	1:Q:876:LEU:O	2.33	0.61
1:I:22:ALA:O	1:I:26:ASN:ND2	2.34	0.61
1:I:522:LYS:HE3	1:I:525:LYS:HZ1	1.63	0.61
1:K:16:LEU:CD2	1:K:65:LEU:CD2	2.78	0.61
1:J:74:GLN:HB2	1:J:75:LYS:HZ2	1.66	0.61
1:J:127:ARG:HD3	1:J:160:VAL:HG11	1.81	0.61
1:J:270:GLN:N	1:J:407:LYS:O	2.33	0.61
1:J:371:ARG:NH1	1:J:436:GLU:OE2	2.32	0.61
1:J:975:MET:HA	1:J:992:ARG:HB2	1.82	0.61
1:J:1108:SER:HA	1:J:1130:ASN:HD22	1.64	0.61
1:L:1224:LEU:HD22	1:L:1235:CYS:HA	1.83	0.61
1:M:870:ASP:HA	1:M:872:ARG:HE	1.65	0.61
1:O:868:SER:HB2	1:O:875:LEU:HD11	1.82	0.61
2:C:95:ARG:HD3	2:C:100:LEU:HD22	1.81	0.61
1:Q:849:LEU:HD21	1:Q:855:GLN:N	2.15	0.61
1:H:107:ILE:HG23	1:H:110:ARG:HH21	1.64	0.61
1:H:868:SER:HB2	1:H:875:LEU:HG	1.82	0.61
1:J:480:HIS:CB	1:J:531:ASN:HB3	2.28	0.61
1:J:727:GLU:O	1:J:735:ALA:HB1	2.01	0.61
1:L:157:LYS:HD2	1:L:267:ARG:HH11	1.66	0.61
1:L:978:THR:HG23	1:L:986:ALA:N	2.12	0.61
1:M:563:ARG:HH12	1:M:1245:LYS:HG3	1.65	0.61
1:O:670:HIS:O	1:O:685:PRO:HB3	2.01	0.61
1:O:1218:GLU:OE2	1:O:1239:LEU:HB2	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:12:LYS:HA	2:C:15:ARG:HD3	1.82	0.61
1:I:641:ASP:O	1:I:650:ASP:N	2.32	0.61
1:I:725:LEU:HD11	1:I:772:VAL:CG1	2.30	0.61
1:I:1012:THR:HA	1:I:1052:GLN:HG2	1.83	0.61
1:I:1149:LEU:HG	1:I:1180:ILE:N	2.15	0.61
1:H:697:LEU:HB2	1:H:720:ASN:OD1	2.00	0.61
1:L:385:LEU:HD11	1:L:466:TYR:CD2	2.36	0.61
1:L:488:ARG:HG3	1:L:491:PHE:HB2	1.82	0.61
1:M:345:ASN:HA	1:M:348:LYS:HE2	1.83	0.61
1:O:447:TYR:HB2	1:O:478:ILE:HD13	1.82	0.61
1:O:975:MET:HB2	1:O:990:LYS:HG3	1.82	0.61
1:Q:320:ASN:HD21	1:Q:323:ARG:HD3	1.64	0.61
1:Q:756:SER:OG	1:Q:827:THR:HG21	2.01	0.61
1:I:93:LYS:HB2	1:I:97:ARG:NH1	2.14	0.61
1:H:660:PHE:H	1:H:676:LYS:HG2	1.65	0.61
1:J:81:LEU:HD23	1:J:89:MET:HB3	1.83	0.61
1:J:266:THR:HG23	1:J:271:VAL:HB	1.83	0.61
1:J:1012:THR:CB	1:J:1053:PHE:HD2	2.11	0.61
1:L:681:TRP:HH2	1:L:705:PHE:CB	2.14	0.61
1:L:1149:LEU:CB	1:L:1180:ILE:HA	2.31	0.61
1:L:1149:LEU:HD23	1:L:1149:LEU:O	2.00	0.61
1:M:483:ARG:NH2	1:M:536:GLU:OE1	2.33	0.61
1:O:125:VAL:O	1:O:127:ARG:NH1	2.33	0.61
1:O:132:LEU:HD12	1:O:135:ARG:HD3	1.83	0.61
2:B:18:ILE:HD13	2:B:80:THR:HB	1.82	0.61
1:Q:14:ASP:HB2	1:Q:107:ILE:HG12	1.83	0.61
1:Q:628:GLY:HA2	1:Q:644:LEU:HD12	1.83	0.61
1:Q:866:LYS:HG3	1:Q:876:LEU:O	2.01	0.61
1:I:117:ASN:OD1	1:I:120:PHE:N	2.30	0.61
1:I:387:SER:HA	1:I:398:VAL:HG11	1.83	0.61
1:I:758:VAL:O	1:I:758:VAL:HG12	2.01	0.61
1:I:1107:ALA:O	1:I:1124:CYS:HA	2.01	0.61
1:H:380:HIS:ND1	1:H:421:SER:OG	2.34	0.60
1:H:1030:GLN:HA	1:H:1030:GLN:NE2	2.14	0.60
1:J:489:MET:HE1	1:J:530:ASP:OD2	2.00	0.60
1:L:125:VAL:HG21	1:L:300:LEU:HA	1.83	0.60
1:L:706:ILE:HD11	1:L:750:ASP:HA	1.81	0.60
1:L:977:MET:HG2	1:L:1009:ILE:HG22	1.82	0.60
1:O:367:LYS:O	1:O:371:ARG:HG2	2.00	0.60
1:O:471:ILE:CG2	1:O:487:PHE:CE2	2.84	0.60
1:I:979:ARG:NH1	1:I:1021:ASN:O	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:47:HIS:HA	1:J:50:MET:HG3	1.83	0.60
1:J:664:LYS:O	1:J:672:ASN:HB2	2.01	0.60
1:J:813:PRO:CG	1:J:824:LYS:CA	2.79	0.60
1:J:1012:THR:OG1	1:J:1053:PHE:CG	2.53	0.60
1:J:1012:THR:O	1:J:1053:PHE:CE2	2.54	0.60
1:J:1047:THR:HG21	1:J:1062:LYS:CB	2.28	0.60
1:J:1051:GLN:C	1:J:1060:TYR:HE1	2.05	0.60
1:M:1108:SER:OG	1:M:1129:ALA:CA	2.49	0.60
1:O:31:ASP:O	1:O:33:GLN:NE2	2.34	0.60
1:K:112:ARG:HH22	1:K:115:ASN:HD22	1.49	0.60
1:K:621:CYS:SG	1:K:632:LEU:CD2	2.88	0.60
1:H:531:ASN:ND2	1:H:535:TYR:CD2	2.69	0.60
1:H:882:LEU:HB3	1:H:903:GLU:HG2	1.84	0.60
1:J:154:GLY:O	1:J:322:ARG:HG2	2.01	0.60
1:J:1184:GLU:HA	1:J:1195:VAL:HG22	1.84	0.60
1:M:74:GLN:OE1	1:M:74:GLN:N	2.33	0.60
1:M:229:ARG:O	1:M:233:LYS:NZ	2.34	0.60
1:M:470:HIS:HB3	1:M:474:HIS:CE1	2.36	0.60
1:M:1042:ASP:OD1	1:M:1068:ILE:HD13	2.02	0.60
1:M:1104:THR:O	1:M:1104:THR:OG1	2.14	0.60
1:O:36:PRO:HB2	1:O:39:ILE:HG22	1.83	0.60
1:O:1009:ILE:HG23	1:O:1020:ILE:HG12	1.82	0.60
2:A:64:GLU:HA	2:A:67:VAL:HB	1.83	0.60
1:Q:135:ARG:NH1	1:Q:136:GLN:HB3	2.15	0.60
1:Q:219:LEU:HA	1:Q:222:HIS:CD2	2.36	0.60
1:Q:475:LEU:HD23	1:Q:478:ILE:HD11	1.83	0.60
1:I:141:LEU:O	1:I:261:LYS:NZ	2.34	0.60
1:I:934:LEU:HD22	1:I:952:HIS:HB2	1.84	0.60
1:K:442:SER:O	1:K:446:HIS:ND1	2.34	0.60
1:H:868:SER:N	1:H:873:TYR:O	2.33	0.60
1:J:1222:VAL:HG23	1:J:1223:GLN:H	1.66	0.60
1:L:808:VAL:HG22	1:L:850:GLN:O	2.02	0.60
1:O:247:VAL:HG21	1:O:264:LEU:HD12	1.82	0.60
1:O:1218:GLU:CG	1:O:1237:ARG:HG3	2.31	0.60
1:O:1220:ARG:H	1:O:1220:ARG:HD2	1.66	0.60
1:Q:828:VAL:HG12	1:Q:829:LEU:HD12	1.83	0.60
1:I:620:PHE:N	1:I:634:ASP:OD2	2.29	0.60
1:H:126:SER:HA	1:H:131:TYR:CE2	2.37	0.60
1:H:968:ASN:O	1:H:976:ASP:HA	2.01	0.60
1:J:771:PHE:N	1:J:776:LYS:O	2.26	0.60
1:J:803:LEU:HA	1:J:846:SER:CB	2.32	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:183:LEU:O	1:L:248:GLN:NE2	2.34	0.60
1:L:1123:VAL:CG1	1:L:1125:HIS:ND1	2.62	0.60
1:M:154:GLY:O	1:M:322:ARG:NE	2.35	0.60
1:I:326:ILE:HD13	1:I:349:LEU:HB3	1.84	0.60
1:K:948:ILE:HB	1:K:957:ILE:HB	1.81	0.60
1:H:371:ARG:HH22	1:H:441:ARG:HD3	1.67	0.60
1:J:532:ASP:OD1	1:J:535:TYR:HD2	1.84	0.60
1:J:620:PHE:HD1	1:J:887:LEU:HD11	1.53	0.60
1:L:629:GLN:HA	1:L:643:TYR:HA	1.84	0.60
1:O:275:LEU:HD12	1:O:280:THR:HG21	1.83	0.60
2:G:58:LYS:HZ1	1:Q:656:ARG:CG	2.15	0.60
1:Q:644:LEU:CD2	1:Q:897:ASN:ND2	2.61	0.60
1:Q:849:LEU:HD22	1:Q:856:LEU:HG	1.84	0.60
1:K:849:LEU:HD21	1:K:856:LEU:HG	1.82	0.60
1:H:476:LYS:NZ	1:H:530:ASP:OD1	2.33	0.60
1:H:630:ILE:CG2	1:H:632:LEU:HD21	2.29	0.60
1:J:616:LEU:O	1:J:617:HIS:ND1	2.34	0.60
1:J:1154:LEU:HD21	1:J:1166:PHE:HZ	1.65	0.60
1:M:148:LEU:HG	1:M:264:LEU:HD21	1.84	0.60
1:M:1062:LYS:HB2	1:M:1066:PRO:HD2	1.84	0.60
1:I:150:ASP:O	1:I:157:LYS:HD3	2.01	0.60
1:I:970:TYR:CE2	1:I:991:GLU:HG3	2.36	0.60
1:K:298:LYS:HA	1:K:301:LEU:HG	1.83	0.60
1:H:630:ILE:HD11	1:H:644:LEU:HD23	1.83	0.60
1:J:979:ARG:CG	1:J:1009:ILE:CD1	2.79	0.60
1:J:1180:ILE:O	1:J:1220:ARG:NH2	2.35	0.60
1:L:683:ASP:H	1:L:692:GLY:H	1.49	0.60
1:O:109:GLN:HG2	1:O:176:PHE:HB3	1.84	0.60
1:O:656:ARG:NH1	1:O:678:TRP:CZ3	2.57	0.60
2:D:18:ILE:HG21	2:D:80:THR:HB	1.83	0.60
2:F:17:HIS:CE1	2:F:106:LEU:HD12	2.37	0.60
1:Q:1185:ILE:O	1:Q:1193:TYR:HA	2.02	0.60
1:K:543:LEU:HA	1:K:546:LEU:HD12	1.83	0.60
1:K:683:ASP:O	1:K:692:GLY:N	2.28	0.60
1:H:294:PRO:HA	1:H:297:VAL:HG22	1.84	0.60
1:H:305:LEU:HD11	1:H:331:ILE:HG22	1.84	0.60
1:H:928:VAL:HB	1:H:1234:HIS:NE2	2.16	0.60
1:L:424:SER:O	1:L:427:LEU:N	2.34	0.60
1:M:1226:TYR:HD1	1:M:1233:GLU:HG2	1.67	0.60
1:I:704:ARG:NH1	1:I:750:ASP:OD2	2.35	0.60
1:I:1108:SER:N	1:I:1130:ASN:HD21	2.00	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:814:LEU:HB2	1:J:855:GLN:HE22	1.67	0.60
1:L:757:HIS:ND1	1:L:772:VAL:N	2.50	0.60
1:L:930:HIS:HE1	1:L:1234:HIS:NE2	1.99	0.60
1:M:803:LEU:HB2	1:M:816:LEU:HB2	1.84	0.60
1:M:1234:HIS:CE1	1:M:1246:LEU:HD21	2.37	0.60
1:O:153:LEU:HB2	1:O:267:ARG:HE	1.67	0.60
1:O:320:ASN:OD1	1:O:323:ARG:NE	2.30	0.60
1:Q:673:GLY:O	1:Q:681:TRP:NE1	2.35	0.60
1:I:924:LYS:HB3	1:I:1222:VAL:HG11	1.84	0.60
1:H:681:TRP:HA	1:H:681:TRP:HE3	1.65	0.59
1:H:732:LEU:HG	1:H:734:VAL:H	1.66	0.59
1:H:820:ASP:H	1:H:836:VAL:HG11	1.67	0.59
1:H:1010:THR:OG1	1:H:1011:PRO:HD2	2.01	0.59
1:J:757:HIS:CE1	1:J:778:TYR:CZ	2.90	0.59
1:L:964:CYS:SG	1:L:980:GLU:HG3	2.41	0.59
1:M:16:LEU:HD11	1:M:65:LEU:HD11	1.82	0.59
1:M:866:LYS:HZ3	1:M:876:LEU:HB2	1.66	0.59
1:O:633:THR:HB	1:O:660:PHE:HD2	1.66	0.59
1:Q:630:ILE:HD11	1:Q:644:LEU:CD2	2.31	0.59
1:Q:685:PRO:HB2	1:Q:688:ARG:HB2	1.84	0.59
1:I:336:ALA:N	1:I:340:ASN:OD1	2.35	0.59
1:I:620:PHE:CD2	1:I:887:LEU:HD11	2.36	0.59
1:I:768:ILE:HD11	1:I:777:ARG:HB3	1.83	0.59
1:I:946:ARG:NH2	1:I:964:CYS:SG	2.75	0.59
1:K:716:ALA:O	1:K:727:GLU:HA	2.02	0.59
1:H:532:ASP:OD1	1:H:535:TYR:CB	2.50	0.59
1:H:714:ILE:HG22	1:H:730:ILE:HD12	1.84	0.59
1:H:902:ILE:O	1:H:902:ILE:HG22	2.02	0.59
1:H:1019:LYS:CA	1:H:1029:GLU:CB	2.79	0.59
1:J:484:MET:SD	1:J:490:VAL:HG23	2.42	0.59
1:J:876:LEU:HD13	1:J:914:VAL:HG12	1.84	0.59
1:J:926:LYS:HB2	1:J:1236:ILE:HD12	1.84	0.59
1:L:708:SER:H	1:L:716:ALA:HA	1.67	0.59
1:O:706:ILE:HD13	1:O:750:ASP:HB2	1.83	0.59
2:G:79:ILE:HA	2:G:82:ARG:NH2	2.18	0.59
1:Q:849:LEU:HD21	1:Q:854:VAL:O	2.02	0.59
1:Q:980:GLU:HB2	1:Q:984:LEU:N	2.17	0.59
1:I:901:HIS:HB2	1:I:903:GLU:HG3	1.85	0.59
1:K:151:GLY:HA3	1:K:285:LEU:HB2	1.84	0.59
1:K:1068:ILE:CG2	1:K:1080:VAL:HA	2.13	0.59
1:J:685:PRO:HD3	1:J:690:SER:O	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1091:GLN:HG3	1:J:1094:ASP:C	2.23	0.59
1:L:72:MET:N	1:L:72:MET:SD	2.72	0.59
1:L:1066:PRO:O	1:L:1068:ILE:N	2.35	0.59
1:M:156:GLY:HA2	1:M:159:TRP:CD1	2.37	0.59
1:M:919:VAL:HG22	1:M:1243:PRO:HG2	1.84	0.59
1:O:242:LEU:HB2	1:O:262:ILE:HG22	1.83	0.59
1:Q:926:LYS:HG2	1:Q:939:GLY:HA3	1.84	0.59
1:I:336:ALA:HB3	1:I:339:ASP:HB3	1.84	0.59
1:I:704:ARG:HH12	1:I:804:HIS:HB2	1.67	0.59
1:K:16:LEU:HD23	1:K:65:LEU:HD22	1.85	0.59
1:K:1136:LYS:HE2	1:K:1143:TYR:CE1	2.37	0.59
1:H:977:MET:CG	1:H:1009:ILE:CD1	2.80	0.59
1:J:139:LEU:HB3	1:J:169:LYS:HZ3	1.67	0.59
1:J:317:LEU:HD21	1:J:327:ILE:HD12	1.84	0.59
1:J:979:ARG:HG3	1:J:979:ARG:O	2.02	0.59
1:L:888:LYS:HE2	1:L:899:SER:HB3	1.83	0.59
1:L:1024:SER:CB	1:L:1026:PHE:CD2	2.85	0.59
1:M:82:ARG:HA	1:M:89:MET:HE2	1.84	0.59
1:M:934:LEU:HB3	1:M:950:TRP:HB3	1.85	0.59
1:O:1065:SER:HB2	1:O:1083:GLN:H	1.68	0.59
1:Q:533:PRO:HA	1:Q:536:GLU:HB2	1.85	0.59
1:Q:781:VAL:HG11	1:Q:824:LYS:HE3	1.83	0.59
1:Q:878:THR:HG23	1:Q:889:ILE:CG2	2.31	0.59
1:Q:882:LEU:HD23	1:Q:919:VAL:HG21	1.85	0.59
1:K:1060:TYR:HD2	1:K:1070:VAL:HG23	1.68	0.59
1:H:975:MET:HG2	1:H:993:ILE:CG2	2.17	0.59
1:J:125:VAL:HG21	1:J:300:LEU:HA	1.84	0.59
1:J:760:VAL:HG11	1:J:762:LYS:HE2	1.83	0.59
1:L:750:ASP:HB3	1:L:806:PHE:CZ	2.36	0.59
1:L:1064:VAL:HG13	1:L:1085:GLU:HA	1.84	0.59
1:M:1090:LEU:O	1:M:1103:SER:CA	2.48	0.59
1:Q:803:LEU:HB2	1:Q:816:LEU:HD12	1.84	0.59
1:Q:1080:VAL:HG22	1:Q:1082:PHE:H	1.68	0.59
1:K:425:ILE:HD12	1:K:429:LEU:HD22	1.84	0.59
1:H:12:TYR:N	1:H:70:GLU:OE2	2.31	0.59
1:H:110:ARG:HG3	1:H:166:LEU:HD12	1.84	0.59
1:H:683:ASP:H	1:H:694:LYS:NZ	2.00	0.59
1:H:761:LEU:HD12	1:H:804:HIS:CG	2.37	0.59
1:H:822:ARG:HD2	1:H:837:TRP:CD2	2.38	0.59
1:H:935:ARG:HH21	1:H:937:VAL:HG21	1.67	0.59
1:H:955:ASP:HB3	1:H:959:VAL:HG21	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:11:GLN:HG3	1:J:14:ASP:H	1.67	0.59
1:L:665:HIS:HE1	1:L:670:HIS:C	2.06	0.59
1:L:695:GLN:CD	1:L:695:GLN:H	2.06	0.59
1:M:20:GLU:HB3	1:M:62:PHE:CE2	2.38	0.59
1:O:336:ALA:N	1:O:340:ASN:OD1	2.35	0.59
1:O:382:PRO:HD2	1:O:385:LEU:HD12	1.84	0.59
2:A:10:MET:HG2	2:A:11:PRO:HD2	1.84	0.59
2:E:10:MET:HE1	2:E:15:ARG:HH22	1.68	0.59
1:Q:988:ASP:HB3	1:Q:992:ARG:HD2	1.84	0.59
1:I:354:GLU:OE2	1:I:358:ASN:ND2	2.35	0.59
1:I:405:LEU:HB3	1:I:410:LEU:CG	2.33	0.59
1:K:21:ASP:OD1	1:K:22:ALA:N	2.36	0.59
1:K:856:LEU:HD13	1:K:888:LYS:HB3	1.84	0.59
1:K:929:VAL:O	1:K:929:VAL:HG12	2.03	0.59
1:H:680:LEU:HD22	1:H:696:GLN:HB3	1.85	0.59
1:J:475:LEU:HD21	1:J:486:LEU:HG	1.84	0.59
1:L:725:LEU:HB2	1:L:739:GLY:H	1.68	0.59
1:L:752:GLU:O	1:L:756:SER:N	2.35	0.59
2:E:70:GLU:OE1	2:E:73:ARG:NE	2.24	0.59
2:G:46:VAL:HG11	1:Q:80:VAL:HG12	1.85	0.59
1:Q:624:ALA:HB3	1:Q:629:GLN:H	1.67	0.59
1:I:684:CYS:CB	1:I:691:GLY:HA3	2.31	0.59
1:I:815:ALA:O	1:I:822:ARG:N	2.36	0.59
1:I:1218:GLU:HB2	1:I:1237:ARG:HD3	1.83	0.59
1:H:59:LEU:HB3	1:H:63:TRP:CZ2	2.38	0.59
1:H:682:PRO:CA	1:H:694:LYS:HD3	2.22	0.59
1:H:1019:LYS:HA	1:H:1029:GLU:CA	2.33	0.59
1:J:666:LEU:HD21	1:J:730:ILE:HD11	1.84	0.59
1:J:674:SER:O	1:J:682:PRO:CG	2.50	0.59
1:J:769:ARG:HH12	1:J:824:LYS:HD3	1.68	0.59
1:L:707:GLY:HA2	1:L:716:ALA:HB1	1.85	0.59
1:L:941:ASN:H	1:L:946:ARG:HB3	1.68	0.59
1:M:939:GLY:C	1:M:947:GLU:N	2.52	0.59
2:A:95:ARG:NH2	2:A:103:ALA:HB3	2.17	0.59
1:K:851:SER:OG	1:K:894:LEU:HD12	2.02	0.59
1:H:656:ARG:NH1	1:H:680:LEU:CD1	2.58	0.59
1:J:142:ARG:HB2	1:J:145:LYS:HB2	1.85	0.59
1:J:488:ARG:NH1	1:J:491:PHE:CE2	2.71	0.59
1:L:171:GLN:HB3	1:L:176:PHE:CD1	2.38	0.59
1:L:218:LYS:O	1:L:221:ILE:HG22	2.03	0.59
1:L:665:HIS:NE2	1:L:669:LEU:HA	2.18	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:656:ARG:HD2	1:M:678:TRP:CE3	2.38	0.59
1:M:1223:GLN:O	1:M:1235:CYS:HA	2.03	0.59
1:O:492:LEU:HD13	1:O:573:ILE:HD11	1.85	0.59
1:O:1007:SER:HB2	1:O:1048:ALA:O	2.03	0.59
1:O:1233:GLU:H	1:O:1245:LYS:HG3	1.68	0.59
2:A:17:HIS:HE1	2:A:106:LEU:HA	1.68	0.59
2:A:52:THR:HG22	2:A:75:LEU:HD22	1.84	0.59
2:B:13:ARG:NH1	2:B:110:ASP:OD1	2.35	0.59
2:D:22:LEU:HD13	2:D:76:LEU:HD22	1.84	0.59
1:Q:450:PRO:HA	1:Q:453:PHE:HB2	1.84	0.59
1:Q:680:LEU:HD23	1:Q:695:GLN:O	2.02	0.59
1:I:803:LEU:HD13	1:I:816:LEU:HD12	1.84	0.59
1:K:48:ILE:HA	1:K:60:ARG:HD2	1.83	0.59
1:K:449:ILE:HG22	1:K:450:PRO:HD3	1.82	0.59
1:J:704:ARG:HD3	1:J:706:ILE:HD11	1.83	0.59
1:L:179:PHE:HB2	1:L:242:LEU:HD13	1.84	0.59
1:L:681:TRP:HB3	1:L:694:LYS:HD2	1.85	0.59
1:L:946:ARG:HH12	1:L:966:GLU:C	2.05	0.59
1:L:1067:ASN:CA	1:L:1105:LYS:HB2	2.29	0.59
1:M:920:LEU:HD23	1:M:1243:PRO:HD2	1.85	0.59
1:O:129:GLN:HG2	1:O:133:LYS:HZ3	1.67	0.59
1:O:633:THR:HB	1:O:660:PHE:CD2	2.38	0.59
2:D:13:ARG:NH2	2:D:110:ASP:OD1	2.36	0.59
2:D:64:GLU:HA	2:D:67:VAL:HB	1.85	0.59
2:F:82:ARG:HB3	2:F:86:ALA:HB2	1.85	0.59
1:Q:620:PHE:CE2	1:Q:674:SER:OG	2.56	0.59
1:Q:970:TYR:HB3	1:Q:976:ASP:OD1	2.03	0.59
1:I:823:SER:O	1:I:832:PHE:N	2.36	0.59
1:I:946:ARG:HH11	1:I:978:THR:HG22	1.68	0.59
1:K:99:PRO:O	1:K:104:ARG:NH2	2.36	0.59
1:K:880:GLU:HB3	1:K:907:ILE:HB	1.84	0.59
1:K:1151:ASN:CB	1:K:1166:PHE:CZ	2.85	0.59
1:H:297:VAL:HG11	1:H:318:THR:HG23	1.83	0.58
1:J:781:VAL:O	1:J:781:VAL:HG12	2.01	0.58
1:L:502:ARG:NH1	1:L:503:HIS:O	2.36	0.58
1:L:811:ASP:O	1:L:826:ALA:N	2.24	0.58
1:M:28:ASP:OD2	1:M:31:ASP:CB	2.51	0.58
1:M:765:GLN:NE2	1:M:787:THR:O	2.36	0.58
1:M:771:PHE:N	1:M:776:LYS:O	2.36	0.58
1:O:117:ASN:OD1	1:O:120:PHE:N	2.36	0.58
1:O:360:LEU:HB2	1:O:365:TYR:HD2	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:26:VAL:HG23	2:N:72:HIS:HB3	1.84	0.58
2:N:86:ALA:O	2:N:90:LEU:N	2.29	0.58
2:E:22:LEU:HD21	2:E:73:ARG:HB2	1.85	0.58
1:Q:1070:VAL:HG22	1:Q:1072:SER:H	1.66	0.58
1:Q:1196:ALA:HB1	1:Q:1221:LYS:HE2	1.83	0.58
1:I:666:LEU:HD12	1:I:670:HIS:HB2	1.85	0.58
1:I:754:LYS:HB3	1:I:757:HIS:HD2	1.68	0.58
1:K:516:ASN:ND2	1:K:612:HIS:HE1	2.00	0.58
1:K:719:LEU:HD13	1:K:749:GLN:HB2	1.84	0.58
1:K:930:HIS:CE1	1:K:1227:SER:HA	2.38	0.58
1:J:117:ASN:OD1	1:J:120:PHE:N	2.36	0.58
1:J:194:GLU:OE1	1:J:194:GLU:N	2.37	0.58
1:J:813:PRO:HG3	1:J:824:LYS:CG	2.33	0.58
1:J:986:ALA:HA	1:J:998:PRO:HA	1.85	0.58
1:L:852:GLU:O	1:L:869:THR:OG1	2.21	0.58
1:L:1128:ILE:HD12	1:L:1129:ALA:H	1.68	0.58
1:M:94:THR:O	1:M:98:GLN:HG2	2.03	0.58
1:O:457:ASP:HB3	1:O:583:ARG:NE	2.17	0.58
1:O:1223:GLN:O	1:O:1223:GLN:HG2	2.03	0.58
2:D:17:HIS:HB2	2:D:109:VAL:HG21	1.84	0.58
1:Q:966:GLU:OE1	1:Q:1007:SER:O	2.20	0.58
1:I:99:PRO:O	1:I:104:ARG:NE	2.36	0.58
1:I:130:PRO:HG3	1:I:290:MET:HA	1.85	0.58
1:I:406:HIS:HB2	1:I:411:VAL:HG13	1.85	0.58
1:K:135:ARG:NH2	1:K:136:GLN:OE1	2.36	0.58
1:K:855:GLN:HE22	1:K:869:THR:HG23	1.68	0.58
1:K:1013:HIS:ND1	1:K:1052:GLN:HG2	2.17	0.58
1:K:1060:TYR:CD2	1:K:1070:VAL:CG2	2.85	0.58
1:H:93:LYS:HD3	1:H:97:ARG:HH22	1.67	0.58
1:H:155:SER:H	1:H:157:LYS:HZ2	1.49	0.58
1:H:1145:VAL:HG22	1:H:1151:ASN:HB3	1.84	0.58
1:J:674:SER:O	1:J:682:PRO:HD3	2.03	0.58
1:L:276:SER:OG	1:M:118:GLN:O	2.20	0.58
1:M:269:LYS:HD2	1:M:406:HIS:O	2.02	0.58
1:M:361:GLU:O	1:M:365:TYR:HB2	2.03	0.58
1:M:769:ARG:NH2	1:M:825:THR:O	2.36	0.58
1:M:967:PRO:HA	1:M:978:THR:HG22	1.84	0.58
2:A:90:LEU:HD22	2:A:106:LEU:HD22	1.84	0.58
2:D:95:ARG:NH2	2:D:107:GLU:OE1	2.37	0.58
1:I:835:SER:HB2	1:I:867:ARG:HH11	1.68	0.58
1:I:1084:LEU:HD21	1:I:1108:SER:OG	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1199:ASP:HA	1:I:1216:ALA:HB3	1.85	0.58
1:K:382:PRO:HG3	1:K:463:LEU:HD13	1.85	0.58
1:H:89:MET:C	1:H:93:LYS:HZ2	2.07	0.58
1:J:719:LEU:HD12	1:J:720:ASN:H	1.67	0.58
1:J:757:HIS:NE2	1:J:778:TYR:CZ	2.71	0.58
1:L:177:LYS:HG3	1:L:240:CYS:HA	1.84	0.58
1:L:385:LEU:HD11	1:L:466:TYR:CE2	2.35	0.58
1:L:1048:ALA:HB2	1:L:1063:GLN:HG3	1.84	0.58
1:L:1084:LEU:O	1:L:1107:ALA:CB	2.50	0.58
1:M:154:GLY:H	1:M:157:LYS:NZ	2.01	0.58
1:O:108:GLU:O	1:O:112:ARG:HG2	2.03	0.58
1:O:475:LEU:CD1	1:O:487:PHE:HE1	2.14	0.58
1:O:625:LEU:HA	1:O:892:PRO:HG2	1.85	0.58
2:N:22:LEU:HG	2:N:76:LEU:HD22	1.84	0.58
2:B:87:TYR:O	2:B:90:LEU:HB2	2.03	0.58
1:Q:813:PRO:O	1:Q:824:LYS:N	2.35	0.58
1:H:521:LEU:HD13	1:H:546:LEU:HD23	1.85	0.58
1:H:929:VAL:CG1	1:H:936:SER:OG	2.51	0.58
1:J:94:THR:HG22	1:J:98:GLN:HG2	1.84	0.58
1:J:457:ASP:HB3	1:J:583:ARG:HE	1.68	0.58
1:J:480:HIS:HB2	1:J:531:ASN:HD22	1.68	0.58
1:J:1019:LYS:HE3	1:J:1053:PHE:HB3	1.86	0.58
1:L:783:THR:HG21	1:L:822:ARG:NE	2.18	0.58
1:M:244:LEU:H	1:M:264:LEU:HA	1.67	0.58
1:M:1106:TYR:CG	1:M:1110:GLN:NE2	2.72	0.58
1:O:129:GLN:NE2	1:O:290:MET:SD	2.72	0.58
1:O:480:HIS:HB2	1:O:483:ARG:HH22	1.68	0.58
1:O:988:ASP:HA	1:O:992:ARG:HD2	1.84	0.58
2:B:33:ARG:HG3	2:B:97:ILE:HD12	1.85	0.58
1:Q:862:ILE:HD12	1:Q:862:ILE:O	2.03	0.58
1:I:214:SER:HA	1:I:220:ARG:HH12	1.68	0.58
1:H:124:ASN:O	1:H:303:LYS:NZ	2.36	0.58
1:H:882:LEU:HD13	1:H:903:GLU:HG2	1.86	0.58
1:J:830:LEU:H	1:J:830:LEU:CD2	2.02	0.58
1:J:901:HIS:HB2	1:J:903:GLU:OE1	2.04	0.58
1:J:1059:ASP:HB2	1:J:1067:ASN:HB2	1.84	0.58
1:L:200:LEU:HD21	1:L:207:TRP:HB2	1.84	0.58
1:L:336:ALA:N	1:L:340:ASN:OD1	2.36	0.58
1:L:1047:THR:O	1:L:1047:THR:HG23	2.04	0.58
1:M:924:LYS:HD2	1:M:1238:GLN:HA	1.84	0.58
1:O:535:TYR:O	1:O:539:VAL:HG22	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1071:ALA:HB3	1:O:1076:ALA:HB3	1.85	0.58
2:N:33:ARG:HG3	2:N:97:ILE:HD12	1.86	0.58
1:Q:746:TRP:HE3	1:Q:760:VAL:HG11	1.69	0.58
1:I:74:GLN:HA	1:I:77:VAL:HG22	1.85	0.58
1:I:924:LYS:HA	1:I:1236:ILE:HG21	1.85	0.58
1:K:153:LEU:HB2	1:K:267:ARG:CZ	2.33	0.58
1:K:284:SER:OG	1:K:286:ASP:OD1	2.21	0.58
1:J:498:GLU:HG3	1:J:520:GLN:HE21	1.68	0.58
1:L:628:GLY:H	1:L:644:LEU:HD12	1.67	0.58
1:L:1150:LYS:HB3	1:L:1166:PHE:CE1	2.39	0.58
1:M:52:LYS:HZ3	1:M:61:LEU:H	1.50	0.58
1:M:178:ILE:HA	1:M:241:LEU:HB3	1.84	0.58
1:O:532:ASP:OD1	1:O:533:PRO:CD	2.52	0.58
1:O:534:LYS:O	1:O:538:LEU:HB2	2.04	0.58
1:I:69:GLN:HG3	1:I:72:MET:HB2	1.85	0.58
1:I:337:THR:O	1:I:341:TRP:HB2	2.03	0.58
1:I:411:VAL:HG23	1:I:422:ILE:HD13	1.85	0.58
1:K:968:ASN:HB3	1:K:1010:THR:HB	1.84	0.58
1:H:631:LEU:HG	1:H:665:HIS:CE1	2.38	0.58
1:J:149:ILE:HG13	1:J:265:THR:HA	1.84	0.58
1:J:642:THR:HB	1:J:647:ASP:HA	1.86	0.58
1:J:806:PHE:HD1	1:J:813:PRO:HA	1.67	0.58
1:J:978:THR:CG2	1:J:986:ALA:HB3	2.20	0.58
1:L:151:GLY:HA3	1:L:285:LEU:HB2	1.83	0.58
1:L:156:GLY:HA2	1:L:159:TRP:CD1	2.39	0.58
1:L:249:ASN:HD21	1:L:251:LYS:HE3	1.69	0.58
1:L:611:ARG:HH12	1:L:630:ILE:HB	1.68	0.58
1:L:687:ARG:O	1:L:687:ARG:HG2	2.03	0.58
1:O:120:PHE:HZ	1:O:163:ASP:HB2	1.68	0.58
1:O:475:LEU:HB2	1:O:487:PHE:HE1	1.69	0.58
1:O:640:GLU:OE1	1:O:642:THR:HG23	2.04	0.58
1:O:986:ALA:HA	1:O:998:PRO:HA	1.85	0.58
2:D:94:LEU:O	2:D:98:ASN:N	2.37	0.58
1:Q:646:ARG:HB3	1:Q:648:GLU:HG3	1.85	0.58
1:I:1029:GLU:HB3	1:I:1038:GLY:H	1.67	0.58
1:H:672:ASN:HD21	1:H:684:CYS:HB2	1.69	0.58
1:H:680:LEU:HD13	1:H:696:GLN:HG3	1.86	0.58
1:H:879:SER:HB2	1:H:888:LYS:HE2	1.86	0.58
1:H:1134:PHE:CD2	1:H:1184:GLU:HG3	2.39	0.58
1:H:1150:LYS:HG2	1:H:1166:PHE:CZ	2.38	0.58
1:J:497:LEU:O	1:J:501:ILE:HB	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:946:ARG:HD2	1:J:977:MET:CB	2.33	0.58
1:J:979:ARG:HB2	1:J:1009:ILE:HD13	1.86	0.58
1:J:1050:PRO:O	1:J:1091:GLN:NE2	2.36	0.58
1:L:247:VAL:HG21	1:L:264:LEU:HD23	1.85	0.58
1:L:463:LEU:H	1:L:467:PHE:HB2	1.68	0.58
1:L:760:VAL:O	1:L:768:ILE:N	2.37	0.58
1:M:371:ARG:HB3	1:M:389:ILE:HG12	1.84	0.58
1:M:746:TRP:N	1:M:763:THR:H	2.01	0.58
1:O:93:LYS:HA	1:O:96:GLN:HE22	1.69	0.58
1:O:124:ASN:O	1:O:303:LYS:NZ	2.37	0.58
1:Q:663:GLN:CB	1:Q:674:SER:HB2	2.33	0.58
1:I:458:LEU:HD13	1:I:491:PHE:HB3	1.86	0.58
1:I:888:LYS:HA	1:I:898:VAL:O	2.03	0.58
1:I:941:ASN:HD21	1:I:947:GLU:HG3	1.69	0.58
1:H:365:TYR:HE1	1:H:404:LYS:HE3	1.68	0.58
1:H:619:ASP:O	1:H:901:HIS:CD2	2.56	0.58
1:H:850:GLN:HB3	1:H:892:PRO:HA	1.86	0.58
1:L:414:GLN:HE21	1:L:419:THR:HG23	1.68	0.58
1:O:457:ASP:HB3	1:O:583:ARG:HE	1.69	0.58
1:O:1056:GLU:OE1	1:O:1072:SER:OG	2.22	0.58
2:B:91:ILE:O	2:B:95:ARG:HD3	2.04	0.58
2:E:82:ARG:HH22	1:I:86:LYS:HE2	1.69	0.58
1:Q:144:ALA:O	1:I:112:ARG:NH2	2.36	0.58
1:I:270:GLN:HA	1:I:407:LYS:HZ3	1.69	0.58
1:I:720:ASN:HD21	1:I:722:ASP:HB2	1.69	0.58
1:I:761:LEU:HD11	1:I:815:ALA:HB1	1.85	0.58
1:I:1102:VAL:HG11	1:I:1109:LEU:HD23	1.81	0.58
1:K:174:MET:CE	1:K:240:CYS:HA	2.34	0.58
1:K:219:LEU:HD23	1:K:220:ARG:HH11	1.68	0.58
1:K:1049:LEU:CA	1:K:1061:LEU:HD12	2.33	0.58
1:H:672:ASN:ND2	1:H:684:CYS:HB2	2.19	0.57
1:L:658:ALA:HB1	1:L:677:LEU:HG	1.86	0.57
1:L:880:GLU:OE2	1:L:901:HIS:NE2	2.33	0.57
1:O:823:SER:H	1:O:835:SER:HB2	1.69	0.57
2:N:95:ARG:HH11	2:N:100:LEU:HD22	1.68	0.57
1:Q:837:TRP:HH2	1:Q:841:PHE:HB2	1.69	0.57
1:I:716:ALA:O	1:I:727:GLU:HA	2.04	0.57
1:K:125:VAL:HG23	1:K:300:LEU:HD13	1.86	0.57
1:H:785:ASN:CB	1:H:836:VAL:CG2	2.82	0.57
1:H:977:MET:HE1	1:H:1018:CYS:CB	2.33	0.57
1:H:985:LEU:HD21	1:H:1007:SER:N	2.19	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:39:ILE:HG13	1:J:40:LEU:HD23	1.86	0.57
1:J:479:GLU:HG3	1:J:481:PRO:HD2	1.87	0.57
1:J:679:SER:HA	1:J:702:VAL:CG2	2.32	0.57
1:J:1233:GLU:O	1:J:1234:HIS:ND1	2.37	0.57
1:L:87:PHE:HB2	1:L:88:LEU:HD12	1.86	0.57
1:L:154:GLY:O	1:L:322:ARG:HG2	2.03	0.57
1:L:155:SER:H	1:L:157:LYS:NZ	2.02	0.57
1:L:867:ARG:HE	1:L:874:LEU:HG	1.68	0.57
1:O:218:LYS:HA	1:O:221:ILE:HG22	1.86	0.57
1:O:350:THR:HA	1:O:353:ILE:HG12	1.87	0.57
1:O:485:THR:O	1:O:488:ARG:NH1	2.36	0.57
1:O:867:ARG:HA	1:O:875:LEU:H	1.69	0.57
2:A:91:ILE:HG23	2:A:103:ALA:HB1	1.85	0.57
2:C:52:THR:HG23	2:C:78:LYS:HZ1	1.69	0.57
1:Q:382:PRO:HG3	1:Q:463:LEU:HD22	1.86	0.57
1:Q:616:LEU:CD1	1:Q:635:VAL:HG12	2.33	0.57
1:I:247:VAL:HG21	1:I:264:LEU:HD12	1.86	0.57
1:I:868:SER:N	1:I:873:TYR:O	2.37	0.57
1:K:168:TYR:HB3	1:K:169:LYS:HZ3	1.68	0.57
1:H:200:LEU:HD11	1:H:207:TRP:CD2	2.40	0.57
1:H:371:ARG:NH1	1:H:441:ARG:HH11	2.00	0.57
1:H:539:VAL:HA	1:H:542:ILE:HG12	1.87	0.57
1:H:1226:TYR:CE1	1:H:1233:GLU:HA	2.39	0.57
1:J:807:ASN:CG	1:J:853:ALA:HB1	2.24	0.57
1:L:43:GLU:O	1:L:46:ASP:HB2	2.04	0.57
1:L:761:LEU:HD23	1:L:804:HIS:CE1	2.38	0.57
1:O:637:LEU:HD11	1:O:658:ALA:CA	2.33	0.57
1:Q:405:LEU:HD11	1:Q:410:LEU:HD22	1.86	0.57
1:Q:638:GLU:O	1:Q:652:SER:C	2.43	0.57
1:Q:1065:SER:HA	1:Q:1084:LEU:HD22	1.85	0.57
1:I:115:ASN:OD1	1:I:118:GLN:NE2	2.37	0.57
1:K:1066:PRO:CB	1:K:1081:ILE:O	2.50	0.57
1:H:704:ARG:C	1:H:718:TYR:CE1	2.75	0.57
1:L:39:ILE:HD11	1:L:76:PHE:HB2	1.86	0.57
1:L:918:ILE:HG22	1:L:919:VAL:H	1.69	0.57
1:O:148:LEU:HG	1:O:264:LEU:HD21	1.85	0.57
1:Q:230:ARG:HE	1:I:201:TYR:HE1	1.50	0.57
1:Q:663:GLN:HG3	1:Q:674:SER:HB3	1.86	0.57
1:Q:939:GLY:HA2	1:Q:990:LYS:NZ	2.19	0.57
1:J:706:ILE:O	1:J:706:ILE:HG22	2.04	0.57
1:J:1084:LEU:HB3	1:J:1105:LYS:HD2	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:405:LEU:HD11	1:M:410:LEU:HD22	1.85	0.57
1:M:518:LEU:HD12	1:M:521:LEU:HD23	1.87	0.57
1:M:646:ARG:HH12	1:M:648:GLU:HG3	1.69	0.57
1:M:1196:ALA:HB3	1:M:1224:LEU:HD22	1.85	0.57
1:O:481:PRO:CA	1:O:484:MET:HE1	2.27	0.57
1:O:762:LYS:HB3	1:O:764:MET:SD	2.44	0.57
1:I:1129:ALA:HB1	1:I:1147:PHE:H	1.70	0.57
1:H:268:PHE:HB3	1:H:408:TYR:O	2.03	0.57
1:H:532:ASP:O	1:H:536:GLU:HG2	2.03	0.57
1:H:748:GLU:HB3	1:H:804:HIS:NE2	2.19	0.57
1:J:379:ALA:HB1	1:J:470:HIS:CE1	2.39	0.57
1:J:765:GLN:O	1:J:783:THR:N	2.36	0.57
1:J:1113:GLN:NE2	1:J:1120:ASP:OD2	2.23	0.57
1:L:889:ILE:H	1:L:898:VAL:HB	1.69	0.57
1:O:969:VAL:HG12	1:O:971:LEU:H	1.69	0.57
1:K:89:MET:HA	1:K:92:ILE:HD12	1.86	0.57
1:K:1027:ASN:HD21	1:K:1047:THR:HG21	1.68	0.57
1:H:484:MET:HE1	1:H:535:TYR:CD1	2.39	0.57
1:J:476:LYS:HD3	1:J:527:TYR:CD1	2.39	0.57
1:J:814:LEU:HD23	1:J:823:SER:CA	2.34	0.57
1:J:968:ASN:HD21	1:J:1009:ILE:HD12	1.69	0.57
1:L:966:GLU:HB2	1:L:979:ARG:HB3	1.87	0.57
1:M:234:SER:HB2	1:M:237:TYR:HD2	1.68	0.57
1:M:1108:SER:OG	1:M:1126:LEU:HG	2.05	0.57
1:O:48:ILE:HG12	1:O:60:ARG:HB3	1.85	0.57
1:O:1149:LEU:HD21	1:O:1220:ARG:CZ	2.35	0.57
1:Q:878:THR:HA	1:Q:889:ILE:HG21	1.84	0.57
1:I:183:LEU:HD12	1:I:247:VAL:HG22	1.87	0.57
1:I:946:ARG:HD3	1:I:967:PRO:HB3	1.87	0.57
1:I:1064:VAL:HA	1:I:1105:LYS:HZ3	1.70	0.57
1:K:145:LYS:NZ	1:K:281:THR:H	2.03	0.57
1:K:408:TYR:O	1:K:409:SER:OG	2.15	0.57
1:K:770:CYS:HA	1:K:777:ARG:HA	1.85	0.57
1:K:1151:ASN:HB2	1:K:1166:PHE:CZ	2.39	0.57
1:H:367:LYS:O	1:H:371:ARG:HG2	2.05	0.57
1:H:387:SER:HA	1:H:398:VAL:HG21	1.85	0.57
1:H:785:ASN:CB	1:H:836:VAL:HG21	2.34	0.57
1:H:989:SER:CB	1:H:994:HIS:C	2.73	0.57
1:J:723:ALA:CA	1:J:744:LEU:HD12	2.35	0.57
1:J:1148:ASP:H	1:J:1150:LYS:HD2	1.70	0.57
1:M:136:GLN:HA	1:M:139:LEU:CD2	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:620:PHE:CE2	1:M:662:GLN:HG3	2.40	0.57
1:M:919:VAL:HG22	1:M:920:LEU:H	1.69	0.57
1:O:90:SER:HA	1:O:93:LYS:HG2	1.87	0.57
1:O:174:MET:HE1	1:O:241:LEU:H	1.69	0.57
1:Q:139:LEU:HD12	1:Q:140:GLU:HG2	1.84	0.57
1:Q:1053:PHE:HB2	1:Q:1059:ASP:HB2	1.86	0.57
1:I:260:CYS:SG	1:I:261:LYS:N	2.78	0.57
1:I:522:LYS:HE3	1:I:525:LYS:NZ	2.19	0.57
1:I:970:TYR:CD1	1:I:991:GLU:HG3	2.39	0.57
1:K:525:LYS:HG3	1:K:526:PRO:HD3	1.87	0.57
1:K:766:SER:HA	1:K:786:CYS:O	2.04	0.57
1:H:1007:SER:CB	1:H:1021:ASN:O	2.51	0.57
1:H:1135:VAL:HA	1:H:1142:GLU:HG2	1.85	0.57
1:J:99:PRO:O	1:J:104:ARG:NE	2.38	0.57
1:J:105:MET:O	1:J:109:GLN:NE2	2.21	0.57
1:J:635:VAL:HA	1:J:659:VAL:HG13	1.87	0.57
1:J:920:LEU:HB3	1:J:1241:PHE:CD2	2.39	0.57
1:L:69:GLN:HG3	1:L:72:MET:HE1	1.86	0.57
1:L:663:GLN:CG	1:L:673:GLY:O	2.53	0.57
1:L:934:LEU:HB2	1:L:950:TRP:CE3	2.40	0.57
1:M:26:ASN:HB2	2:A:81:GLN:HE21	1.69	0.57
1:M:30:LYS:HE3	1:M:48:ILE:O	2.04	0.57
1:M:149:ILE:HG22	1:M:283:ILE:HB	1.86	0.57
1:M:660:PHE:HA	1:M:676:LYS:HG2	1.87	0.57
1:M:940:SER:H	1:M:946:ARG:CA	2.17	0.57
1:O:463:LEU:H	1:O:467:PHE:HB2	1.70	0.57
2:C:70:GLU:HG2	2:C:73:ARG:HD2	1.86	0.57
2:D:55:LEU:HA	2:D:74:ARG:HH12	1.70	0.57
1:Q:851:SER:HB2	1:Q:852:GLU:HG3	1.86	0.57
1:Q:948:ILE:HD11	1:Q:957:ILE:HD12	1.87	0.57
1:Q:1022:ALA:O	1:Q:1047:THR:OG1	2.22	0.57
1:Q:1061:LEU:HD21	1:Q:1091:GLN:HB2	1.87	0.57
1:Q:1216:ALA:HB1	1:Q:1237:ARG:CZ	2.35	0.57
1:I:922:GLY:HA3	1:I:940:SER:O	2.04	0.57
1:I:1090:LEU:O	1:I:1104:THR:OG1	2.21	0.57
1:K:155:SER:HB3	1:K:157:LYS:HG3	1.87	0.57
1:K:414:GLN:HE21	1:K:419:THR:HG23	1.70	0.57
1:K:977:MET:SD	1:K:987:VAL:HG22	2.45	0.57
1:H:220:ARG:O	1:H:224:ILE:CD1	2.52	0.57
1:H:365:TYR:HB3	1:H:405:LEU:HD21	1.87	0.57
1:H:1217:VAL:HG21	1:H:1241:PHE:CD2	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:29:CYS:O	1:L:33:GLN:NE2	2.31	0.57
1:L:1042:ASP:O	1:L:1045:HIS:CD2	2.58	0.57
1:M:40:LEU:HD21	1:M:45:ILE:HB	1.87	0.57
1:M:97:ARG:NH1	1:M:97:ARG:O	2.37	0.57
1:M:148:LEU:HD22	1:M:282:HIS:CD2	2.39	0.57
2:D:24:ILE:O	2:D:27:GLU:HG2	2.04	0.57
2:F:17:HIS:HE1	2:F:106:LEU:HA	1.70	0.57
1:Q:300:LEU:HD21	1:Q:325:SER:HA	1.86	0.57
1:Q:524:TYR:HB3	1:Q:543:LEU:HD12	1.86	0.57
1:Q:547:PRO:O	1:Q:608:ASN:O	2.22	0.57
1:Q:951:VAL:HG21	1:Q:1234:HIS:HE1	1.70	0.57
1:Q:1041:ILE:HG22	1:Q:1043:VAL:HG13	1.86	0.57
1:Q:1070:VAL:HA	1:Q:1078:LYS:HB2	1.86	0.57
1:I:13:LYS:NZ	1:I:68:LYS:O	2.37	0.57
1:I:399:MET:HA	1:I:402:VAL:HG22	1.87	0.57
1:I:534:LYS:NZ	1:I:538:LEU:CD1	2.67	0.57
1:K:64:THR:O	1:K:68:LYS:NZ	2.38	0.57
1:K:81:LEU:HD22	1:K:89:MET:HB3	1.87	0.57
1:J:424:SER:O	1:J:428:GLU:OE1	2.23	0.56
1:J:463:LEU:H	1:J:467:PHE:HB2	1.69	0.56
1:J:679:SER:CA	1:J:702:VAL:HG22	2.33	0.56
1:J:725:LEU:HG	1:J:743:ILE:O	2.05	0.56
1:L:131:TYR:HD1	1:L:164:VAL:HG22	1.70	0.56
1:M:182:ASN:HB2	1:M:184:LYS:HD3	1.87	0.56
1:M:761:LEU:CB	1:M:804:HIS:CD2	2.83	0.56
1:O:300:LEU:HD23	1:O:324:LEU:HD23	1.87	0.56
1:O:868:SER:O	1:O:872:ARG:N	2.38	0.56
1:O:1065:SER:O	1:O:1083:GLN:NE2	2.38	0.56
2:G:38:CYS:HA	2:G:41:GLN:HB2	1.87	0.56
1:Q:266:THR:HG21	1:Q:271:VAL:HB	1.87	0.56
1:Q:331:ILE:O	1:Q:336:ALA:N	2.38	0.56
1:Q:806:PHE:HB3	1:Q:810:ASN:HA	1.85	0.56
1:I:488:ARG:HG3	1:I:491:PHE:CD2	2.39	0.56
1:I:876:LEU:HD21	1:I:915:TYR:HA	1.86	0.56
1:I:987:VAL:H	1:I:993:ILE:HG13	1.69	0.56
1:K:183:LEU:HD21	1:K:244:LEU:HD12	1.86	0.56
1:K:657:MET:O	1:K:676:LYS:NZ	2.32	0.56
1:H:721:GLU:O	1:H:723:ALA:N	2.37	0.56
1:J:1057:PRO:HD3	1:J:1098:LEU:HD12	1.86	0.56
1:J:1109:LEU:HD23	1:J:1123:VAL:HG21	1.86	0.56
1:L:749:GLN:HG2	1:L:758:VAL:HG21	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:58:LYS:O	2:N:60:PHE:N	2.33	0.56
2:A:23:ASN:OD1	2:A:24:ILE:HD12	2.04	0.56
1:Q:44:GLU:HA	1:Q:47:HIS:CD2	2.41	0.56
1:I:522:LYS:O	1:I:526:PRO:CG	2.53	0.56
1:I:1012:THR:CG2	1:I:1019:LYS:HZ2	2.17	0.56
1:K:1049:LEU:N	1:K:1061:LEU:HD13	2.20	0.56
1:H:36:PRO:O	1:H:39:ILE:HG22	2.05	0.56
1:H:213:HIS:H	1:H:220:ARG:HD3	1.70	0.56
1:H:345:ASN:HA	1:H:348:LYS:HG2	1.86	0.56
1:J:232:LEU:HD11	1:J:260:CYS:HB2	1.88	0.56
1:J:845:LEU:HG	1:J:858:GLU:HG3	1.87	0.56
1:J:1053:PHE:O	1:J:1058:ILE:HB	2.05	0.56
1:J:1102:VAL:O	1:J:1111:GLU:HG2	2.06	0.56
1:J:1136:LYS:HE2	1:J:1193:TYR:HE1	1.70	0.56
1:J:1227:SER:N	1:J:1232:HIS:O	2.37	0.56
1:L:374:VAL:HB	1:L:446:HIS:HE1	1.70	0.56
1:L:457:ASP:HB3	1:L:583:ARG:NE	2.19	0.56
1:L:940:SER:CB	1:L:967:PRO:CB	2.73	0.56
1:L:966:GLU:CD	1:L:1009:ILE:HB	2.23	0.56
1:L:970:TYR:N	1:L:975:MET:O	2.36	0.56
1:L:1008:THR:CG2	1:L:1050:PRO:HD2	2.34	0.56
1:M:130:PRO:O	1:M:134:LEU:HG	2.04	0.56
1:O:521:LEU:O	1:O:525:LYS:HG2	2.05	0.56
1:O:702:VAL:HG21	2:N:60:PHE:CZ	2.40	0.56
1:O:1136:LYS:HB3	1:O:1190:LYS:NZ	2.21	0.56
1:O:1143:TYR:HE2	1:O:1186:ALA:HB2	1.69	0.56
2:C:10:MET:HB3	2:C:84:PRO:HB3	1.87	0.56
2:G:37:GLU:HG2	2:G:97:ILE:CD1	2.36	0.56
1:Q:399:MET:HA	1:Q:402:VAL:HG22	1.87	0.56
1:I:470:HIS:O	1:I:474:HIS:ND1	2.39	0.56
1:I:824:LYS:HG2	1:I:831:ILE:HG23	1.87	0.56
1:I:1064:VAL:O	1:I:1105:LYS:HG3	2.05	0.56
1:K:154:GLY:O	1:K:322:ARG:HG2	2.05	0.56
1:K:761:LEU:HD22	1:K:804:HIS:CE1	2.41	0.56
1:K:895:ARG:O	1:K:911:PHE:N	2.33	0.56
1:H:704:ARG:HG3	1:H:705:PHE:H	1.70	0.56
1:H:1201:THR:O	1:H:1202:MET:HE2	2.06	0.56
1:J:927:GLN:HB3	1:J:969:VAL:HG12	1.87	0.56
1:L:1065:SER:HA	1:L:1106:TYR:O	2.06	0.56
1:L:1131:PRO:HB3	1:L:1147:PHE:HE1	1.71	0.56
1:M:13:LYS:HB2	1:M:66:LEU:HD13	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:732:LEU:HD22	1:M:736:PHE:HZ	1.69	0.56
1:M:1065:SER:OG	1:M:1084:LEU:O	2.23	0.56
1:O:190:GLU:O	1:O:194:GLU:HG2	2.04	0.56
1:O:536:GLU:O	1:O:540:ASN:OD1	2.22	0.56
2:B:12:LYS:HD2	2:B:15:ARG:HB2	1.87	0.56
2:D:26:VAL:HG23	2:D:72:HIS:HB3	1.87	0.56
2:F:25:LEU:HG	2:F:102:ALA:HB1	1.86	0.56
1:Q:620:PHE:HE2	1:Q:674:SER:OG	1.89	0.56
1:Q:727:GLU:O	1:Q:736:PHE:N	2.36	0.56
1:Q:857:PRO:HG2	1:Q:865:GLY:O	2.06	0.56
1:K:117:ASN:OD1	1:K:118:GLN:N	2.38	0.56
1:K:146:ASN:OD1	1:K:262:ILE:N	2.37	0.56
1:K:167:SER:O	1:K:171:GLN:HG3	2.06	0.56
1:K:674:SER:O	1:K:681:TRP:HA	2.05	0.56
1:K:1007:SER:N	1:K:1021:ASN:O	2.39	0.56
1:K:1049:LEU:CB	1:K:1061:LEU:CD1	2.58	0.56
1:H:660:PHE:HD1	1:H:677:LEU:HD12	1.69	0.56
1:H:683:ASP:H	1:H:694:LYS:HZ3	1.52	0.56
1:H:752:GLU:N	1:H:758:VAL:HG22	2.20	0.56
1:J:666:LEU:HD22	1:J:730:ILE:HD11	1.86	0.56
1:J:946:ARG:NH1	1:J:977:MET:HA	2.21	0.56
1:L:213:HIS:HB2	1:L:220:ARG:HH11	1.71	0.56
1:L:704:ARG:CZ	1:L:749:GLN:HB2	2.36	0.56
1:L:976:ASP:H	1:L:989:SER:HB3	1.70	0.56
1:L:1149:LEU:HD12	1:L:1180:ILE:HA	1.87	0.56
1:L:1185:ILE:HD11	1:L:1226:TYR:CZ	2.41	0.56
1:M:406:HIS:ND1	1:M:412:GLU:HA	2.21	0.56
1:M:443:ILE:HG13	1:M:478:ILE:HG23	1.86	0.56
1:M:1049:LEU:CD1	1:M:1061:LEU:HD22	2.19	0.56
1:O:69:GLN:NE2	1:O:72:MET:HG3	2.21	0.56
1:O:751:GLN:HA	1:O:758:VAL:HG22	1.85	0.56
2:F:10:MET:HB3	2:F:14:HIS:HB2	1.87	0.56
1:Q:291:THR:O	1:Q:291:THR:HG22	2.06	0.56
1:Q:475:LEU:HD22	1:Q:482:GLU:HB3	1.86	0.56
1:I:718:TYR:CB	1:I:726:PRO:HG2	2.35	0.56
1:I:1135:VAL:HG22	1:I:1142:GLU:HG2	1.87	0.56
1:H:609:GLU:O	1:H:907:ILE:HA	2.06	0.56
1:H:822:ARG:HD2	1:H:837:TRP:CE2	2.41	0.56
1:M:483:ARG:NH1	1:M:484:MET:SD	2.78	0.56
1:M:728:ALA:HA	1:M:736:PHE:CD1	2.40	0.56
1:O:471:ILE:HG23	1:O:487:PHE:HZ	1.56	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:480:HIS:HB2	1:O:483:ARG:NH2	2.20	0.56
1:O:623:ILE:HG23	1:O:644:LEU:HD21	1.87	0.56
2:F:70:GLU:HG3	2:F:73:ARG:HD3	1.88	0.56
1:Q:442:SER:O	1:Q:446:HIS:ND1	2.38	0.56
1:Q:769:ARG:HB3	1:Q:779:TYR:HB2	1.86	0.56
1:I:48:ILE:HG13	1:I:60:ARG:NH1	2.20	0.56
1:K:218:LYS:O	1:K:221:ILE:HG22	2.06	0.56
1:H:155:SER:H	1:H:157:LYS:NZ	2.04	0.56
1:H:660:PHE:N	1:H:676:LYS:HB2	2.20	0.56
1:H:970:TYR:CE2	1:H:1011:PRO:CA	2.69	0.56
1:H:1112:GLY:HA2	1:H:1120:ASP:HB2	1.88	0.56
1:L:976:ASP:N	1:L:989:SER:HB3	2.21	0.56
1:M:277:ALA:HA	1:M:282:HIS:HE1	1.71	0.56
1:M:345:ASN:HB3	1:M:349:LEU:HD23	1.88	0.56
1:O:76:PHE:HA	1:O:80:VAL:HB	1.88	0.56
1:O:85:TYR:HB3	1:O:88:LEU:HB2	1.88	0.56
1:O:629:GLN:HA	1:O:643:TYR:HA	1.86	0.56
2:B:22:LEU:HD12	2:B:76:LEU:HD22	1.87	0.56
1:Q:159:TRP:HE1	1:Q:322:ARG:HH12	1.54	0.56
1:Q:463:LEU:O	1:Q:467:PHE:HB2	2.06	0.56
1:Q:657:MET:C	1:Q:676:LYS:HD2	2.26	0.56
1:Q:980:GLU:HB2	1:Q:984:LEU:HB2	1.87	0.56
1:I:525:LYS:CG	1:I:526:PRO:CD	2.79	0.56
1:I:946:ARG:NH1	1:I:978:THR:HG22	2.20	0.56
1:K:213:HIS:HB2	1:K:220:ARG:HD3	1.87	0.56
1:K:235:LYS:HA	1:K:238:GLU:HG2	1.88	0.56
1:K:1185:ILE:HG21	1:K:1226:TYR:CD1	2.41	0.56
1:H:979:ARG:HB2	1:H:1007:SER:N	2.20	0.56
1:J:1092:PRO:HB2	1:J:1135:VAL:HG23	1.87	0.56
1:L:336:ALA:HB3	1:L:339:ASP:HB2	1.86	0.56
1:M:163:ASP:HA	1:M:166:LEU:HD12	1.87	0.56
1:M:457:ASP:HB3	1:M:583:ARG:NE	2.14	0.56
1:M:538:LEU:HG	1:M:571:GLU:HG2	1.87	0.56
1:O:193:LEU:HD13	1:O:217:ILE:HG13	1.87	0.56
1:O:989:SER:HB2	1:O:992:ARG:HE	1.71	0.56
2:N:17:HIS:CD2	2:N:109:VAL:HB	2.41	0.56
2:F:48:MET:HA	2:F:51:ASN:ND2	2.20	0.56
1:Q:664:LYS:CE	1:Q:681:TRP:HZ2	2.16	0.56
1:I:968:ASN:ND2	1:I:1009:ILE:HG22	2.20	0.56
1:H:969:VAL:HG13	1:H:969:VAL:O	2.05	0.56
1:J:354:GLU:OE2	1:J:358:ASN:ND2	2.33	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:824:LYS:HG2	1:L:831:ILE:HA	1.88	0.56
1:M:15:ILE:HD13	1:M:96:GLN:HA	1.86	0.56
1:M:277:ALA:H	1:O:122:LYS:HE3	1.71	0.56
1:M:672:ASN:ND2	1:M:684:CYS:O	2.39	0.56
1:M:866:LYS:NZ	1:M:876:LEU:HB2	2.20	0.56
1:O:189:PRO:HA	1:O:192:VAL:HG22	1.88	0.56
1:O:532:ASP:OD1	1:O:533:PRO:HD2	2.05	0.56
2:A:88:ASN:OD1	2:A:89:LEU:N	2.38	0.56
1:Q:247:VAL:HG21	1:Q:264:LEU:HB2	1.88	0.56
1:Q:302:LEU:HA	1:Q:306:ASP:HA	1.88	0.56
1:Q:403:ASN:O	1:Q:407:LYS:HG2	2.06	0.56
1:I:18:VAL:O	1:I:169:LYS:NZ	2.39	0.56
1:I:345:ASN:HA	1:I:348:LYS:HE2	1.87	0.56
1:I:381:ILE:O	1:I:420:ILE:N	2.36	0.56
1:I:825:THR:N	1:I:830:LEU:O	2.32	0.56
1:I:845:LEU:HB2	1:I:886:ASP:O	2.06	0.56
1:K:52:LYS:HD2	1:K:53:ASP:H	1.70	0.56
1:K:212:ASP:O	1:K:213:HIS:ND1	2.39	0.56
1:K:770:CYS:SG	1:K:777:ARG:NE	2.77	0.56
1:K:921:CYS:HA	1:K:1240:LEU:O	2.06	0.56
1:H:660:PHE:N	1:H:676:LYS:HG2	2.21	0.56
1:H:807:ASN:ND2	1:H:812:THR:OG1	2.39	0.56
1:J:146:ASN:HA	1:J:262:ILE:O	2.06	0.56
1:J:488:ARG:NH1	1:J:491:PHE:HE2	2.04	0.56
1:L:1061:LEU:HD22	1:L:1091:GLN:NE2	2.21	0.56
1:M:387:SER:HA	1:M:398:VAL:HG11	1.88	0.56
1:O:289:SER:OG	1:O:290:MET:SD	2.64	0.56
1:O:414:GLN:HE21	1:O:419:THR:HG23	1.71	0.56
1:O:662:GLN:NE2	1:O:703:LYS:O	2.39	0.56
1:Q:868:SER:N	1:Q:873:TYR:O	2.39	0.56
1:I:1126:LEU:HD11	1:I:1144:ILE:CG2	2.36	0.56
1:K:478:ILE:HG13	1:K:479:GLU:N	2.20	0.56
1:K:845:LEU:HB2	1:K:886:ASP:O	2.06	0.56
1:K:1134:PHE:O	1:K:1143:TYR:HB2	2.05	0.56
1:H:142:ARG:HG2	1:H:143:PRO:HD2	1.88	0.55
1:H:993:ILE:HD12	1:H:993:ILE:O	2.05	0.55
1:J:157:LYS:HA	1:J:160:VAL:HG22	1.88	0.55
1:L:122:LYS:HB2	1:K:276:SER:HB3	1.88	0.55
1:L:162:LEU:O	1:L:166:LEU:HG	2.06	0.55
1:L:382:PRO:HD2	1:L:385:LEU:HD12	1.87	0.55
1:L:868:SER:O	1:L:872:ARG:N	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1011:PRO:O	1:M:1052:GLN:NE2	2.39	0.55
1:O:675:VAL:HG13	1:O:679:SER:HA	1.87	0.55
1:O:1227:SER:HB3	1:O:1232:HIS:HB2	1.88	0.55
2:A:12:LYS:NZ	2:A:16:GLU:OE1	2.24	0.55
2:E:41:GLN:NE2	2:E:96:ASN:OD1	2.37	0.55
1:Q:867:ARG:HG2	1:Q:874:LEU:HB2	1.88	0.55
1:I:665:HIS:HA	1:I:672:ASN:HA	1.87	0.55
1:K:785:ASN:ND2	1:K:822:ARG:HG2	2.20	0.55
1:K:1151:ASN:HB3	1:K:1166:PHE:CZ	2.41	0.55
1:H:23:PHE:HD1	1:H:27:PHE:CG	2.24	0.55
1:H:69:GLN:HE22	1:H:71:GLU:HB3	1.71	0.55
1:H:458:LEU:HD13	1:H:491:PHE:HB3	1.86	0.55
1:H:823:SER:O	1:H:832:PHE:N	2.29	0.55
1:J:199:LEU:HA	1:J:202:GLN:HG2	1.88	0.55
1:J:330:SER:OG	1:J:345:ASN:OD1	2.21	0.55
1:L:385:LEU:HD13	1:L:466:TYR:CZ	2.41	0.55
1:L:946:ARG:NH1	1:L:966:GLU:O	2.37	0.55
1:L:1150:LYS:HB3	1:L:1166:PHE:HE1	1.71	0.55
1:M:183:LEU:HD12	1:M:247:VAL:HG22	1.87	0.55
1:M:305:LEU:HA	1:M:332:ARG:HD3	1.89	0.55
1:O:320:ASN:H	1:O:323:ARG:NE	2.05	0.55
1:O:1084:LEU:HG	1:O:1085:GLU:H	1.71	0.55
2:D:31:TYR:CZ	2:D:71:GLN:HB3	2.41	0.55
1:Q:854:VAL:HG22	1:Q:868:SER:HA	1.87	0.55
1:I:463:LEU:HD23	1:I:465:GLN:H	1.71	0.55
1:K:630:ILE:HG13	1:K:644:LEU:HD23	1.87	0.55
1:K:1068:ILE:HD13	1:K:1080:VAL:CG2	2.33	0.55
1:H:405:LEU:HD22	1:H:410:LEU:HD22	1.87	0.55
1:H:765:GLN:HG2	1:H:818:VAL:HG22	1.88	0.55
1:J:979:ARG:NH1	1:J:1020:ILE:CG2	2.69	0.55
1:L:117:ASN:OD1	1:L:120:PHE:N	2.39	0.55
1:L:502:ARG:NH1	1:L:516:ASN:OD1	2.39	0.55
1:M:928:VAL:HB	1:M:1225:ILE:HD13	1.88	0.55
1:M:939:GLY:CA	1:M:946:ARG:HA	2.33	0.55
1:M:1102:VAL:HG22	1:M:1109:LEU:HD11	1.87	0.55
1:M:1104:THR:HG22	1:M:1109:LEU:HD22	1.87	0.55
1:M:1183:GLU:OE2	1:M:1196:ALA:N	2.34	0.55
1:O:1051:GLN:HB2	1:O:1059:ASP:HB2	1.89	0.55
1:Q:73:VAL:HA	1:Q:76:PHE:HD2	1.72	0.55
1:Q:747:ASP:H	1:Q:762:LYS:HA	1.71	0.55
1:Q:890:SER:OG	1:Q:898:VAL:HG23	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:131:TYR:HA	1:I:134:LEU:HD12	1.89	0.55
1:I:157:LYS:HZ3	1:I:267:ARG:HH12	1.54	0.55
1:I:502:ARG:HE	1:I:503:HIS:H	1.53	0.55
1:K:134:LEU:HD13	1:K:283:ILE:HG13	1.88	0.55
1:K:212:ASP:HA	1:K:220:ARG:HE	1.71	0.55
1:K:246:ASN:HB3	1:K:267:ARG:HD3	1.89	0.55
1:K:483:ARG:HD3	1:K:530:ASP:C	2.27	0.55
1:H:484:MET:CE	1:H:490:VAL:CG2	2.85	0.55
1:H:760:VAL:HB	1:H:768:ILE:HG13	1.88	0.55
1:J:617:HIS:O	1:J:634:ASP:HB3	2.06	0.55
1:M:463:LEU:CD2	1:M:465:GLN:HG3	2.37	0.55
1:M:853:ALA:O	1:M:869:THR:N	2.39	0.55
1:O:422:ILE:HB	1:O:427:LEU:HD12	1.87	0.55
1:O:1043:VAL:O	1:O:1045:HIS:N	2.39	0.55
1:Q:887:LEU:HB2	1:Q:907:ILE:HG13	1.87	0.55
1:Q:923:ALA:H	1:Q:1240:LEU:HB3	1.71	0.55
1:I:665:HIS:ND1	1:I:666:LEU:O	2.31	0.55
1:I:977:MET:CE	1:I:1009:ILE:HG21	2.34	0.55
1:I:1070:VAL:HG22	1:I:1077:GLN:HG2	1.87	0.55
1:I:1222:VAL:HG22	1:I:1236:ILE:HB	1.87	0.55
1:K:770:CYS:HB3	1:K:777:ARG:HH21	1.71	0.55
1:K:1060:TYR:O	1:K:1067:ASN:HB3	2.06	0.55
1:H:29:CYS:SG	1:H:48:ILE:CG2	2.94	0.55
1:H:47:HIS:HA	1:H:50:MET:HG3	1.88	0.55
1:H:729:ASN:HB2	1:H:732:LEU:HB3	1.88	0.55
1:H:855:GLN:HG3	1:H:856:LEU:H	1.71	0.55
1:J:30:LYS:NZ	1:J:48:ILE:O	2.24	0.55
1:J:94:THR:O	1:J:98:GLN:N	2.26	0.55
1:J:117:ASN:ND2	1:J:120:PHE:HB3	2.21	0.55
1:J:486:LEU:C	1:J:488:ARG:H	2.10	0.55
1:J:990:LYS:HB2	1:J:1011:PRO:HA	1.87	0.55
1:M:643:TYR:HB3	1:M:647:ASP:HA	1.89	0.55
1:M:968:ASN:HD22	1:M:977:MET:HB3	1.72	0.55
2:C:27:GLU:HG2	2:C:28:TRP:HD1	1.71	0.55
2:D:47:GLN:NE2	2:D:51:ASN:HD22	2.03	0.55
2:E:82:ARG:HH12	1:I:86:LYS:HG2	1.71	0.55
1:Q:212:ASP:HB3	1:Q:220:ARG:HD3	1.88	0.55
1:Q:849:LEU:CD2	1:Q:854:VAL:O	2.54	0.55
1:I:755:LEU:HB3	1:I:773:GLN:HE21	1.71	0.55
1:I:1018:CYS:N	1:I:1031:ILE:HG13	2.20	0.55
1:K:404:LYS:HA	1:K:407:LYS:HE2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:472:GLY:HA2	1:K:487:PHE:CE1	2.42	0.55
1:J:484:MET:CE	1:J:489:MET:HB2	2.36	0.55
1:J:528:ILE:HD11	1:J:543:LEU:HD12	1.89	0.55
1:L:367:LYS:O	1:L:371:ARG:HG2	2.06	0.55
1:L:661:ASN:N	1:L:675:VAL:O	2.35	0.55
1:L:891:ASP:HB2	1:L:895:ARG:H	1.71	0.55
1:L:946:ARG:HH12	1:L:967:PRO:CA	2.18	0.55
1:M:74:GLN:HA	1:M:77:VAL:HG12	1.89	0.55
1:M:90:SER:HA	1:M:93:LYS:HE2	1.88	0.55
1:M:470:HIS:HB3	1:M:474:HIS:HE1	1.71	0.55
1:O:443:ILE:HD11	1:O:474:HIS:HA	1.89	0.55
1:O:483:ARG:HG2	1:O:489:MET:HE1	1.88	0.55
1:O:771:PHE:CD2	1:O:774:VAL:HB	2.39	0.55
2:N:17:HIS:HB2	2:N:109:VAL:HG21	1.89	0.55
2:N:25:LEU:HB2	2:N:76:LEU:HD21	1.88	0.55
1:Q:181:LEU:HD11	1:Q:199:LEU:HB2	1.89	0.55
1:Q:357:LEU:O	1:Q:359:VAL:N	2.39	0.55
1:Q:665:HIS:ND1	1:Q:672:ASN:ND2	2.49	0.55
1:Q:1066:PRO:HB3	1:Q:1082:PHE:CG	2.41	0.55
1:I:520:GLN:HG2	1:I:524:TYR:CZ	2.40	0.55
1:H:82:ARG:HE	1:H:89:MET:CE	2.20	0.55
1:H:708:SER:H	1:H:717:PHE:HD2	1.53	0.55
1:H:969:VAL:CA	1:H:992:ARG:HH21	2.19	0.55
1:H:977:MET:CG	1:H:1009:ILE:HD12	2.36	0.55
1:J:1108:SER:HB2	1:J:1110:GLN:HE22	1.72	0.55
1:L:53:ASP:OD1	1:L:54:ALA:N	2.38	0.55
1:L:463:LEU:HD13	1:L:467:PHE:CE1	2.42	0.55
1:L:663:GLN:HG3	1:L:673:GLY:O	2.06	0.55
1:L:1013:HIS:NE2	1:L:1056:GLU:N	2.54	0.55
1:M:404:LYS:O	1:M:407:LYS:HG2	2.06	0.55
1:M:656:ARG:HH21	1:M:682:PRO:HD3	1.71	0.55
1:M:1007:SER:OG	1:M:1008:THR:N	2.34	0.55
1:O:30:LYS:HG3	1:O:49:ILE:HG23	1.89	0.55
1:Q:621:CYS:CB	1:Q:899:SER:N	2.67	0.55
1:I:765:GLN:O	1:I:783:THR:OG1	2.21	0.55
1:I:922:GLY:HA2	1:I:1240:LEU:HD23	1.88	0.55
1:K:401:VAL:HA	1:K:404:LYS:HE2	1.89	0.55
1:H:785:ASN:HB2	1:H:836:VAL:HG21	1.89	0.55
1:H:1000:ILE:HG23	1:H:1000:ILE:O	2.07	0.55
1:J:760:VAL:HG23	1:J:768:ILE:H	1.72	0.55
1:J:771:PHE:CE1	1:J:778:TYR:HD1	2.25	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:287:HIS:CD2	1:L:290:MET:HG2	2.42	0.55
1:M:154:GLY:HA2	1:M:157:LYS:HZ3	1.72	0.55
1:M:488:ARG:HG3	1:M:491:PHE:CD2	2.42	0.55
1:O:938:SER:HB3	1:O:948:ILE:HD13	1.89	0.55
2:B:13:ARG:O	2:B:16:GLU:HG3	2.07	0.55
2:C:31:TYR:CZ	2:C:71:GLN:HB3	2.42	0.55
1:Q:72:MET:HE1	1:Q:75:LYS:HD3	1.89	0.55
1:Q:189:PRO:HB2	1:Q:217:ILE:HD13	1.88	0.55
1:Q:657:MET:O	1:Q:676:LYS:CD	2.55	0.55
1:Q:669:LEU:HG	1:Q:670:HIS:H	1.72	0.55
1:I:196:LEU:HD12	1:I:221:ILE:HD11	1.88	0.55
1:H:715:VAL:HG22	1:H:729:ASN:OD1	2.07	0.55
1:J:12:TYR:CZ	1:J:96:GLN:HG2	2.42	0.55
1:J:268:PHE:HB2	1:J:271:VAL:HG23	1.89	0.55
1:J:672:ASN:N	1:J:684:CYS:O	2.38	0.55
1:J:715:VAL:HG11	1:J:727:GLU:OE1	2.06	0.55
1:L:304:TYR:O	1:L:332:ARG:NE	2.38	0.55
1:L:458:LEU:HD13	1:L:491:PHE:HB3	1.89	0.55
1:L:678:TRP:CZ3	2:B:58:LYS:HE2	2.42	0.55
1:M:214:SER:HA	1:M:220:ARG:HH12	1.71	0.55
1:O:155:SER:H	1:O:157:LYS:NZ	2.03	0.55
1:O:330:SER:O	1:O:340:ASN:ND2	2.39	0.55
2:A:26:VAL:HG23	2:A:72:HIS:HB3	1.89	0.55
1:Q:637:LEU:O	1:Q:654:ILE:HB	2.07	0.55
1:Q:659:VAL:HG21	1:Q:678:TRP:CE3	2.38	0.55
1:I:401:VAL:O	1:I:405:LEU:HG	2.07	0.55
1:I:449:ILE:HG22	1:I:450:PRO:HD3	1.86	0.55
1:I:986:ALA:O	1:I:999:ALA:CB	2.43	0.55
1:K:86:LYS:HD2	1:K:89:MET:HE2	1.88	0.55
1:K:640:GLU:OE1	1:K:642:THR:HG23	2.07	0.55
1:K:988:ASP:HA	1:K:996:ILE:HG12	1.88	0.55
1:H:990:LYS:HD2	1:H:990:LYS:O	2.06	0.55
1:H:1062:LYS:HB2	1:H:1064:VAL:HG22	1.89	0.55
1:J:193:LEU:HD13	1:J:221:ILE:HD13	1.87	0.55
1:J:405:LEU:HD11	1:J:410:LEU:HD22	1.87	0.55
1:J:664:LYS:HD2	1:J:705:PHE:HB3	1.89	0.55
1:L:110:ARG:HD3	1:L:114:TYR:HE2	1.71	0.55
1:L:1047:THR:HA	1:L:1062:LYS:HA	1.89	0.55
1:O:562:LEU:HD22	1:O:581:VAL:HB	1.89	0.55
1:O:986:ALA:HA	1:O:999:ALA:H	1.71	0.55
2:C:69:VAL:HG12	2:C:73:ARG:HH12	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:34:LEU:HA	2:G:97:ILE:HD11	1.89	0.55
1:Q:910:LEU:HD12	1:Q:911:PHE:H	1.70	0.55
1:I:386:LEU:HA	1:I:389:ILE:HG22	1.89	0.55
1:I:704:ARG:HD2	1:I:748:GLU:HB2	1.88	0.55
1:K:666:LEU:HD12	1:K:670:HIS:HB2	1.87	0.55
1:K:929:VAL:CG1	1:K:971:LEU:HD22	2.37	0.55
1:K:1067:ASN:HD21	1:K:1091:GLN:NE2	2.00	0.55
1:J:946:ARG:HH21	1:J:964:CYS:HA	1.72	0.54
1:L:167:SER:HB3	1:L:170:VAL:HG23	1.88	0.54
1:M:155:SER:OG	1:M:321:PRO:HD2	2.06	0.54
1:M:307:CYS:O	1:M:311:ASP:N	2.40	0.54
1:M:371:ARG:HD2	1:M:389:ILE:HG12	1.89	0.54
1:M:665:HIS:ND1	1:M:666:LEU:O	2.32	0.54
1:M:1047:THR:HA	1:M:1062:LYS:HG2	1.88	0.54
1:M:1090:LEU:O	1:M:1104:THR:N	2.40	0.54
1:O:785:ASN:HB3	1:O:787:THR:HG23	1.90	0.54
1:Q:48:ILE:HG12	1:Q:60:ARG:HB3	1.88	0.54
1:Q:72:MET:HG3	1:Q:76:PHE:HE2	1.73	0.54
1:Q:321:PRO:O	1:Q:325:SER:HB2	2.07	0.54
1:Q:449:ILE:O	1:Q:452:THR:OG1	2.21	0.54
1:I:170:VAL:O	1:I:174:MET:N	2.39	0.54
1:I:192:VAL:HA	1:I:195:MET:HE3	1.89	0.54
1:I:1007:SER:OG	1:I:1008:THR:N	2.39	0.54
1:K:478:ILE:HG13	1:K:479:GLU:H	1.72	0.54
1:K:567:MET:N	1:K:567:MET:SD	2.81	0.54
1:H:148:LEU:HD23	1:H:275:LEU:HD11	1.89	0.54
1:H:749:GLN:HG2	1:H:760:VAL:HG22	1.89	0.54
1:H:831:ILE:HG21	1:H:835:SER:HB3	1.89	0.54
1:H:954:ALA:CA	1:H:976:ASP:OD2	2.56	0.54
1:J:86:LYS:HD2	1:J:89:MET:SD	2.47	0.54
1:J:143:PRO:HA	1:J:261:LYS:HG3	1.89	0.54
1:J:620:PHE:HA	1:J:887:LEU:HD12	1.88	0.54
1:J:936:SER:HA	1:J:950:TRP:HA	1.89	0.54
1:L:153:LEU:HB2	1:L:267:ARG:HH21	1.72	0.54
1:L:732:LEU:HD23	1:L:736:PHE:CZ	2.42	0.54
1:M:106:TYR:HB2	1:M:176:PHE:CE1	2.43	0.54
1:M:135:ARG:HA	1:M:138:LEU:HD12	1.88	0.54
1:M:938:SER:HA	1:M:948:ILE:HG12	1.89	0.54
1:M:1106:TYR:CD2	1:M:1109:LEU:CA	2.82	0.54
1:Q:630:ILE:HD11	1:Q:644:LEU:HD23	1.88	0.54
1:I:48:ILE:HA	1:I:60:ARG:NH2	2.21	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:611:ARG:NH1	1:I:642:THR:OG1	2.38	0.54
1:H:170:VAL:O	1:H:174:MET:HB2	2.07	0.54
1:H:377:PRO:HB3	1:H:428:GLU:HG2	1.90	0.54
1:J:222:HIS:CE1	1:K:198:LYS:HE3	2.42	0.54
1:J:642:THR:CA	1:J:649:SER:HB3	2.37	0.54
1:J:1216:ALA:HA	1:J:1237:ARG:NH2	2.22	0.54
1:L:152:VAL:HG22	1:L:153:LEU:HD23	1.89	0.54
1:L:668:THR:HG23	1:L:670:HIS:HE1	1.73	0.54
1:L:1027:ASN:HB2	1:L:1040:ILE:HG23	1.90	0.54
1:M:627:SER:C	1:M:644:LEU:CD1	2.75	0.54
1:O:183:LEU:HD22	1:O:247:VAL:HG22	1.89	0.54
2:B:14:HIS:HB3	2:B:87:TYR:CE2	2.42	0.54
2:F:17:HIS:O	2:F:21:ASN:CB	2.53	0.54
2:G:50:ARG:HB3	2:G:53:GLN:HG3	1.88	0.54
1:I:660:PHE:HE1	1:I:676:LYS:HG2	1.71	0.54
1:K:1049:LEU:O	1:K:1061:LEU:CB	2.55	0.54
1:H:127:ARG:NH1	1:H:293:THR:OG1	2.40	0.54
1:H:616:LEU:HB3	1:H:635:VAL:CG1	2.36	0.54
1:J:188:SER:O	1:J:191:THR:OG1	2.20	0.54
1:J:254:ASN:OD1	1:J:255:ALA:N	2.40	0.54
1:J:845:LEU:HD13	1:J:847:VAL:HG13	1.88	0.54
1:J:913:PRO:O	1:J:916:LYS:N	2.38	0.54
1:J:1056:GLU:HG3	1:J:1098:LEU:HG	1.90	0.54
1:L:127:ARG:HG3	1:L:130:PRO:HD2	1.89	0.54
1:L:202:GLN:NE2	1:L:203:ILE:HG12	2.22	0.54
1:L:681:TRP:HZ3	1:L:718:TYR:CD1	2.25	0.54
1:M:154:GLY:O	1:M:156:GLY:N	2.40	0.54
1:M:1029:GLU:HB2	1:M:1038:GLY:HA3	1.90	0.54
2:N:69:VAL:HG12	2:N:73:ARG:NH1	2.22	0.54
2:A:63:ASP:OD1	2:A:63:ASP:N	2.40	0.54
2:A:87:TYR:O	2:A:90:LEU:HB3	2.06	0.54
2:F:22:LEU:HD11	2:F:73:ARG:HA	1.88	0.54
1:Q:847:VAL:HG22	1:Q:848:SER:H	1.73	0.54
1:I:755:LEU:HD23	1:I:773:GLN:HE21	1.73	0.54
1:K:852:GLU:CD	1:K:853:ALA:H	2.11	0.54
1:H:299:SER:O	1:H:303:LYS:HG2	2.06	0.54
1:J:487:PHE:HB3	1:J:489:MET:HE2	1.90	0.54
1:J:615:TYR:CD2	1:J:616:LEU:HG	2.42	0.54
1:J:897:ASN:HB3	1:J:911:PHE:CZ	2.42	0.54
1:J:1196:ALA:N	1:J:1224:LEU:HD11	2.22	0.54
1:L:36:PRO:O	1:L:39:ILE:HG22	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:102:MET:HA	1:L:105:MET:HE2	1.90	0.54
1:L:455:SER:H	1:L:460:PRO:HG3	1.72	0.54
1:L:483:ARG:NH2	1:L:528:ILE:O	2.41	0.54
1:L:624:ALA:HB3	1:L:627:SER:HA	1.90	0.54
1:L:969:VAL:HG22	1:L:976:ASP:OD1	2.07	0.54
1:M:1027:ASN:HB2	1:M:1040:ILE:HB	1.88	0.54
1:O:437:TYR:O	1:O:437:TYR:CD1	2.61	0.54
1:O:771:PHE:HB2	1:O:775:LEU:H	1.73	0.54
1:O:862:ILE:HD13	1:O:884:VAL:H	1.73	0.54
1:O:979:ARG:HA	1:O:984:LEU:O	2.08	0.54
2:A:18:ILE:HG21	2:A:80:THR:HB	1.89	0.54
2:B:75:LEU:O	2:B:79:ILE:HG12	2.07	0.54
2:D:26:VAL:HA	2:D:72:HIS:CD2	2.43	0.54
2:D:100:LEU:HA	2:D:103:ALA:HB3	1.88	0.54
1:Q:967:PRO:O	1:Q:990:LYS:NZ	2.26	0.54
1:H:768:ILE:HD12	1:H:777:ARG:HG2	1.89	0.54
1:J:969:VAL:HG22	1:J:970:TYR:H	1.72	0.54
1:J:1196:ALA:HB2	1:J:1224:LEU:HG	1.89	0.54
1:M:48:ILE:HA	1:M:52:LYS:HD3	1.89	0.54
1:M:674:SER:O	1:M:681:TRP:HA	2.07	0.54
2:A:21:ASN:HB3	2:A:24:ILE:HB	1.88	0.54
2:C:48:MET:HA	2:C:51:ASN:ND2	2.23	0.54
1:Q:938:SER:HB2	1:Q:948:ILE:HG22	1.89	0.54
1:I:184:LYS:HD2	1:I:246:ASN:HD22	1.73	0.54
1:K:927:GLN:NE2	1:K:967:PRO:O	2.41	0.54
1:K:1060:TYR:HD2	1:K:1070:VAL:CG2	2.21	0.54
1:H:189:PRO:HA	1:H:192:VAL:HG22	1.89	0.54
1:H:748:GLU:HB2	1:H:761:LEU:O	2.08	0.54
1:J:484:MET:HE2	1:J:484:MET:HA	1.89	0.54
1:J:642:THR:HA	1:J:649:SER:HB3	1.88	0.54
1:L:23:PHE:HA	1:L:27:PHE:HB3	1.89	0.54
1:L:82:ARG:HH21	1:L:93:LYS:CE	2.20	0.54
1:L:491:PHE:HA	1:L:576:GLU:HG2	1.88	0.54
1:L:625:LEU:CG	1:L:669:LEU:CD2	2.72	0.54
1:L:656:ARG:NH2	1:L:680:LEU:O	2.41	0.54
1:M:339:ASP:HA	1:M:343:HIS:ND1	2.22	0.54
1:M:540:ASN:OD1	1:M:541:ALA:N	2.41	0.54
1:O:472:GLY:HA2	1:O:487:PHE:CE1	2.38	0.54
2:N:37:GLU:OE1	2:N:40:GLN:NE2	2.40	0.54
2:D:36:MET:O	2:D:40:GLN:NE2	2.41	0.54
1:Q:644:LEU:CD2	1:Q:897:ASN:CG	2.76	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:153:LEU:HA	1:I:267:ARG:HH11	1.73	0.54
1:I:305:LEU:HA	1:I:332:ARG:HD2	1.88	0.54
1:I:381:ILE:N	1:I:420:ILE:O	2.41	0.54
1:K:43:GLU:O	1:K:47:HIS:ND1	2.41	0.54
1:H:125:VAL:HG21	1:H:300:LEU:HB2	1.89	0.54
1:H:193:LEU:HD11	1:H:220:ARG:HE	1.72	0.54
1:H:480:HIS:HB2	1:H:531:ASN:N	2.22	0.54
1:H:1092:PRO:HB3	1:H:1134:PHE:HA	1.90	0.54
1:J:758:VAL:HG23	1:J:770:CYS:O	2.08	0.54
1:J:762:LYS:HD3	1:J:762:LYS:N	2.23	0.54
1:J:853:ALA:O	1:J:869:THR:OG1	2.24	0.54
1:J:979:ARG:CB	1:J:1009:ILE:HD13	2.37	0.54
1:L:298:LYS:HA	1:L:301:LEU:HG	1.89	0.54
1:L:428:GLU:HG2	1:L:429:LEU:N	2.23	0.54
1:L:880:GLU:OE2	1:L:907:ILE:HB	2.08	0.54
1:L:924:LYS:HD3	1:L:1222:VAL:HG21	1.89	0.54
1:M:42:LYS:O	1:M:46:ASP:OD2	2.25	0.54
1:M:625:LEU:HD11	1:M:665:HIS:HE1	1.72	0.54
1:M:901:HIS:HB2	1:M:903:GLU:OE1	2.08	0.54
1:O:213:HIS:H	1:O:220:ARG:HD3	1.73	0.54
1:Q:178:ILE:HG22	1:Q:241:LEU:HB3	1.88	0.54
1:Q:621:CYS:HB3	1:Q:899:SER:O	2.07	0.54
1:I:1064:VAL:CG2	1:I:1084:LEU:O	2.55	0.54
1:K:14:ASP:HB3	1:K:110:ARG:HH21	1.70	0.54
1:K:367:LYS:O	1:K:371:ARG:HG2	2.08	0.54
1:K:614:VAL:HG12	1:K:904:CYS:HB2	1.90	0.54
1:K:900:GLU:HA	1:K:906:ASP:OD1	2.08	0.54
1:H:480:HIS:HB2	1:H:531:ASN:HA	1.89	0.54
1:H:926:LYS:HG3	1:H:926:LYS:O	2.08	0.54
1:H:1136:LYS:HD2	1:H:1137:PRO:HD2	1.89	0.54
1:J:179:PHE:O	1:J:242:LEU:HA	2.08	0.54
1:J:449:ILE:O	1:J:452:THR:OG1	2.24	0.54
1:J:475:LEU:HB3	1:J:483:ARG:HG3	1.88	0.54
1:J:484:MET:SD	1:J:490:VAL:CG2	2.96	0.54
1:J:622:LEU:HB2	1:J:631:LEU:HD21	1.89	0.54
1:J:934:LEU:HB2	1:J:950:TRP:HE3	1.71	0.54
1:J:946:ARG:HD2	1:J:977:MET:CG	2.38	0.54
1:L:76:PHE:HD1	1:L:80:VAL:HB	1.73	0.54
1:M:150:ASP:N	1:M:283:ILE:O	2.41	0.54
1:O:978:THR:O	1:O:985:LEU:HA	2.08	0.54
1:O:1219:ASN:CB	1:O:1238:GLN:OE1	2.34	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:52:THR:HA	2:E:74:ARG:HH22	1.72	0.54
1:Q:611:ARG:HH11	1:Q:630:ILE:HD13	1.68	0.54
1:Q:675:VAL:N	1:Q:681:TRP:HD1	2.05	0.54
1:Q:917:TYR:HD2	1:Q:918:ILE:HG12	1.73	0.54
1:I:82:ARG:O	1:I:86:LYS:NZ	2.22	0.54
1:I:489:MET:HA	1:I:495:ARG:HH21	1.73	0.54
1:I:754:LYS:CB	1:I:757:HIS:CD2	2.86	0.54
1:I:754:LYS:HB2	1:I:757:HIS:CD2	2.43	0.54
1:I:807:ASN:HD22	1:I:808:VAL:HG22	1.73	0.54
1:K:323:ARG:HB2	1:K:349:LEU:HD21	1.89	0.54
1:H:478:ILE:HG13	1:H:479:GLU:H	1.73	0.54
1:H:672:ASN:N	1:H:684:CYS:O	2.41	0.54
1:J:376:PRO:HB2	1:J:379:ALA:HB2	1.90	0.54
1:J:405:LEU:HG	1:J:410:LEU:HB2	1.89	0.54
1:J:687:ARG:HA	1:J:687:ARG:CZ	2.38	0.54
1:L:52:LYS:HD3	1:L:55:VAL:HB	1.90	0.54
1:L:401:VAL:O	1:L:405:LEU:HG	2.08	0.54
1:L:979:ARG:NH1	1:L:1020:ILE:CG2	2.69	0.54
1:M:625:LEU:N	1:M:669:LEU:HD11	2.23	0.54
1:O:12:TYR:HA	1:O:15:ILE:HG12	1.90	0.54
1:O:864:CYS:HB3	1:O:866:LYS:NZ	2.23	0.54
2:N:10:MET:HB2	2:N:14:HIS:ND1	2.23	0.54
2:C:17:HIS:CG	2:C:109:VAL:HG21	2.43	0.54
2:F:36:MET:HA	2:F:39:VAL:HG12	1.90	0.54
2:G:58:LYS:NZ	1:Q:656:ARG:CG	2.71	0.54
1:Q:45:ILE:HD12	1:Q:48:ILE:HD12	1.89	0.54
1:Q:188:SER:O	1:Q:191:THR:OG1	2.22	0.54
1:Q:616:LEU:HD12	1:Q:635:VAL:CB	2.38	0.54
1:Q:896:SER:O	1:Q:908:TYR:CE2	2.61	0.54
1:Q:965:LEU:HD23	1:Q:966:GLU:HG3	1.90	0.54
1:Q:1184:GLU:HA	1:Q:1195:VAL:HA	1.90	0.54
1:I:142:ARG:HG2	1:I:143:PRO:HD2	1.90	0.54
1:I:1090:LEU:HD13	1:I:1132:SER:HB2	1.89	0.54
1:K:321:PRO:HB2	1:K:322:ARG:NH1	2.23	0.54
1:H:442:SER:O	1:H:446:HIS:ND1	2.23	0.53
1:H:995:LEU:HD13	1:H:995:LEU:C	2.29	0.53
1:J:93:LYS:HB2	1:J:97:ARG:HH12	1.73	0.53
1:J:112:ARG:HH21	1:I:259:SER:HB3	1.73	0.53
1:J:357:LEU:O	1:J:357:LEU:HD23	2.08	0.53
1:J:488:ARG:CD	1:J:491:PHE:CD2	2.80	0.53
1:L:229:ARG:NH1	1:L:258:LEU:HA	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1186:ALA:HA	1:M:1193:TYR:CD1	2.43	0.53
1:M:1226:TYR:CD1	1:M:1233:GLU:HG2	2.42	0.53
1:M:1245:LYS:HG2	1:M:1246:LEU:H	1.71	0.53
1:O:484:MET:N	1:O:484:MET:SD	2.82	0.53
1:O:761:LEU:HA	1:O:767:GLY:HA2	1.90	0.53
1:Q:186:CYS:H	1:Q:248:GLN:HG3	1.72	0.53
1:Q:472:GLY:HA2	1:Q:487:PHE:CZ	2.43	0.53
1:Q:761:LEU:HD23	1:Q:762:LYS:O	2.08	0.53
1:Q:823:SER:OG	1:Q:832:PHE:HB2	2.08	0.53
1:I:663:GLN:HA	1:I:674:SER:HA	1.90	0.53
1:I:866:LYS:HE2	1:I:876:LEU:HB2	1.89	0.53
1:I:1110:GLN:HA	1:I:1122:GLY:HA2	1.89	0.53
1:K:438:ALA:HA	1:K:441:ARG:NH2	2.23	0.53
1:K:677:LEU:HD12	1:K:678:TRP:HD1	1.73	0.53
1:K:846:SER:HB2	1:K:857:PRO:HA	1.90	0.53
1:H:488:ARG:HG3	1:H:491:PHE:CD2	2.44	0.53
1:H:845:LEU:HD13	1:H:887:LEU:HD23	1.90	0.53
1:H:978:THR:O	1:H:985:LEU:CD2	2.57	0.53
1:H:1078:LYS:HG2	1:H:1079:THR:HG23	1.90	0.53
1:J:174:MET:SD	1:J:241:LEU:HD23	2.48	0.53
1:J:761:LEU:HD22	1:J:804:HIS:HB2	1.91	0.53
1:L:400:VAL:O	1:L:404:LYS:HG2	2.07	0.53
1:M:367:LYS:NZ	1:M:436:GLU:OE2	2.41	0.53
1:M:748:GLU:HB2	1:M:804:HIS:HD2	1.73	0.53
2:B:10:MET:HG3	2:B:87:TYR:CE2	2.43	0.53
2:G:45:THR:O	2:G:48:MET:N	2.30	0.53
1:Q:244:LEU:HB2	1:Q:264:LEU:HA	1.90	0.53
1:Q:470:HIS:O	1:Q:474:HIS:ND1	2.41	0.53
1:Q:628:GLY:CA	1:Q:644:LEU:CD1	2.84	0.53
1:I:127:ARG:HD3	1:I:292:LEU:HG	1.90	0.53
1:K:336:ALA:N	1:K:340:ASN:OD1	2.41	0.53
1:K:475:LEU:HD23	1:K:487:PHE:CE1	2.43	0.53
1:K:541:ALA:HB1	1:K:545:PHE:CZ	2.43	0.53
1:K:680:LEU:HD22	1:K:697:LEU:H	1.73	0.53
1:K:757:HIS:CD2	1:K:772:VAL:HG12	2.43	0.53
1:K:1053:PHE:HB2	1:K:1059:ASP:HB2	1.90	0.53
1:J:813:PRO:CD	1:J:824:LYS:HB2	2.36	0.53
1:J:1056:GLU:HB2	1:J:1098:LEU:HD12	1.91	0.53
1:M:70:GLU:O	1:M:73:VAL:HG22	2.08	0.53
1:M:478:ILE:HG13	1:M:479:GLU:H	1.74	0.53
1:M:623:ILE:HG23	1:M:644:LEU:CD2	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:685:PRO:HD2	1:M:690:SER:N	2.23	0.53
1:M:728:ALA:HA	1:M:736:PHE:HD1	1.73	0.53
1:M:887:LEU:HD13	1:M:889:ILE:HD11	1.88	0.53
1:M:936:SER:HA	1:M:949:ALA:O	2.08	0.53
1:O:224:ILE:O	1:O:228:LEU:HG	2.07	0.53
2:A:17:HIS:HA	2:A:20:LYS:HG2	1.90	0.53
1:Q:94:THR:O	1:Q:98:GLN:N	2.42	0.53
1:Q:456:ASP:OD2	1:Q:583:ARG:NH1	2.42	0.53
1:I:502:ARG:HE	1:I:503:HIS:N	2.05	0.53
1:I:780:VAL:HG13	1:I:781:VAL:H	1.73	0.53
1:H:148:LEU:HD13	1:H:264:LEU:HG	1.91	0.53
1:H:388:LEU:HD22	1:H:449:ILE:HG12	1.90	0.53
1:H:562:LEU:HD13	1:H:577:ALA:HB1	1.90	0.53
1:J:628:GLY:HA2	1:J:644:LEU:HG	1.89	0.53
1:L:44:GLU:HG3	1:L:48:ILE:HG13	1.90	0.53
1:L:276:SER:HA	1:M:122:LYS:HD3	1.91	0.53
1:L:354:GLU:HA	1:L:357:LEU:HD12	1.90	0.53
1:L:620:PHE:HA	1:L:887:LEU:HD12	1.91	0.53
1:M:52:LYS:HG2	1:M:57:GLY:HA2	1.89	0.53
1:M:563:ARG:NH2	1:M:1245:LYS:HD2	2.24	0.53
1:M:940:SER:N	1:M:946:ARG:HA	2.21	0.53
1:O:534:LYS:CE	1:O:538:LEU:HD13	2.38	0.53
2:G:58:LYS:HZ1	1:Q:656:ARG:HG2	1.73	0.53
1:Q:167:SER:HB3	1:Q:170:VAL:HG22	1.90	0.53
1:Q:449:ILE:HG23	1:Q:450:PRO:HD3	1.90	0.53
1:I:136:GLN:HA	1:I:139:LEU:HD13	1.89	0.53
1:I:382:PRO:HG3	1:I:463:LEU:HD13	1.89	0.53
1:I:938:SER:C	1:I:967:PRO:HG2	2.29	0.53
1:K:167:SER:HB3	1:K:170:VAL:HG22	1.91	0.53
1:K:844:GLY:H	1:K:858:GLU:HB3	1.74	0.53
1:H:488:ARG:HG3	1:H:491:PHE:HD2	1.74	0.53
1:J:478:ILE:HG13	1:J:479:GLU:H	1.73	0.53
1:J:663:GLN:HB3	1:J:674:SER:CB	2.35	0.53
1:L:665:HIS:NE2	1:L:669:LEU:CA	2.72	0.53
1:O:260:CYS:SG	1:O:261:LYS:N	2.81	0.53
1:O:353:ILE:HD13	1:O:429:LEU:HD23	1.89	0.53
1:O:770:CYS:HB3	1:O:777:ARG:CZ	2.39	0.53
1:O:888:LYS:HG2	1:O:899:SER:HB2	1.89	0.53
2:C:68:ARG:HH21	2:C:71:GLN:HE22	1.56	0.53
1:Q:809:GLU:C	1:Q:811:ASP:H	2.10	0.53
1:Q:1053:PHE:CZ	1:Q:1098:LEU:HB2	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:883:ILE:HG22	1:I:902:ILE:HB	1.91	0.53
1:I:1022:ALA:HB3	1:I:1025:ALA:HB3	1.90	0.53
1:H:475:LEU:HD23	1:H:478:ILE:HD11	1.91	0.53
1:H:717:PHE:HB3	1:H:753:PHE:HD1	1.73	0.53
1:H:969:VAL:HG23	1:H:976:ASP:OD1	2.09	0.53
1:H:1184:GLU:HB2	1:H:1194:LEU:HB3	1.90	0.53
1:J:813:PRO:CD	1:J:824:LYS:CA	2.86	0.53
1:J:1059:ASP:OD2	1:J:1061:LEU:HG	2.07	0.53
1:L:35:MET:HE1	1:L:42:LYS:H	1.72	0.53
1:L:77:VAL:HG21	1:L:92:ILE:HG21	1.91	0.53
1:L:683:ASP:CB	1:L:693:SER:CB	2.84	0.53
1:L:1126:LEU:HD12	1:L:1130:ASN:HB3	1.91	0.53
1:M:480:HIS:CG	1:M:481:PRO:HD3	2.44	0.53
1:M:661:ASN:H	1:M:676:LYS:HA	1.72	0.53
1:M:728:ALA:HB2	1:M:735:ALA:HA	1.91	0.53
1:M:868:SER:HB2	1:M:873:TYR:CZ	2.44	0.53
1:M:948:ILE:HD12	1:M:957:ILE:HD11	1.91	0.53
1:Q:47:HIS:CE1	1:Q:60:ARG:HD3	2.44	0.53
1:Q:135:ARG:HA	1:Q:138:LEU:HD12	1.91	0.53
1:Q:928:VAL:HB	1:Q:1225:ILE:HG21	1.90	0.53
1:I:253:TRP:HA	1:I:256:PHE:HB2	1.90	0.53
1:I:834:TYR:H	1:I:872:ARG:HH21	1.56	0.53
1:I:867:ARG:HE	1:I:874:LEU:HG	1.73	0.53
1:K:458:LEU:HD13	1:K:491:PHE:HB3	1.89	0.53
1:K:857:PRO:HD2	1:K:866:LYS:HA	1.91	0.53
1:K:937:VAL:HB	1:K:949:ALA:HB3	1.90	0.53
1:K:1109:LEU:HD13	1:K:1144:ILE:HG12	1.90	0.53
1:K:1218:GLU:HB2	1:K:1237:ARG:HD3	1.89	0.53
1:H:711:ASN:O	1:H:713:LYS:N	2.42	0.53
1:J:480:HIS:N	1:J:481:PRO:CD	2.71	0.53
1:J:622:LEU:CD1	1:J:663:GLN:HG2	2.39	0.53
1:J:715:VAL:CG1	1:J:727:GLU:HB3	2.38	0.53
1:J:716:ALA:O	1:J:727:GLU:HA	2.09	0.53
1:L:114:TYR:HD1	1:L:121:ALA:HB1	1.74	0.53
1:L:769:ARG:HB2	1:L:778:TYR:HB2	1.91	0.53
1:O:12:TYR:CD2	1:O:74:GLN:HG2	2.44	0.53
1:O:674:SER:N	1:O:682:PRO:HD2	2.23	0.53
2:E:26:VAL:HG23	2:E:72:HIS:CD2	2.44	0.53
1:Q:260:CYS:SG	1:Q:261:LYS:N	2.81	0.53
1:Q:620:PHE:HZ	1:Q:661:ASN:CA	2.20	0.53
1:Q:825:THR:CG2	1:Q:830:LEU:N	2.64	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:985:LEU:HD12	1:Q:1000:ILE:HA	1.91	0.53
1:I:674:SER:H	1:I:682:PRO:HD2	1.73	0.53
1:I:725:LEU:CD1	1:I:772:VAL:HG11	2.39	0.53
1:I:732:LEU:HD12	1:I:736:PHE:CZ	2.44	0.53
1:I:1091:GLN:HG2	1:I:1103:SER:HA	1.91	0.53
1:K:79:GLU:OE1	1:K:79:GLU:N	2.42	0.53
1:H:117:ASN:HD22	1:H:162:LEU:HD22	1.74	0.53
1:H:475:LEU:HD13	1:H:483:ARG:HA	1.90	0.53
1:J:612:HIS:CD2	1:J:905:VAL:HG13	2.44	0.53
1:J:728:ALA:HA	1:J:735:ALA:CB	2.39	0.53
1:J:813:PRO:HD3	1:J:824:LYS:O	2.09	0.53
1:J:979:ARG:HG2	1:J:1009:ILE:HD13	1.85	0.53
1:L:475:LEU:HA	1:L:478:ILE:HG12	1.91	0.53
1:Q:620:PHE:CZ	1:Q:662:GLN:CA	2.92	0.53
1:Q:979:ARG:HH21	1:Q:1009:ILE:HB	1.74	0.53
1:I:521:LEU:O	1:I:525:LYS:HG2	2.09	0.53
1:I:921:CYS:SG	1:I:926:LYS:NZ	2.63	0.53
1:I:968:ASN:HD21	1:I:1009:ILE:HB	1.73	0.53
1:K:174:MET:HE3	1:K:239:ASN:O	2.09	0.53
1:K:196:LEU:HD13	1:K:199:LEU:HD12	1.91	0.53
1:K:783:THR:O	1:K:785:ASN:N	2.42	0.53
1:H:90:SER:HB2	1:H:91:PRO:HD3	1.89	0.53
1:H:122:LYS:HE3	1:O:277:ALA:H	1.74	0.53
1:H:359:VAL:HG23	1:H:360:LEU:HD12	1.89	0.53
1:H:360:LEU:HB2	1:H:366:ARG:HE	1.74	0.53
1:J:117:ASN:HD21	1:J:120:PHE:HB3	1.74	0.53
1:J:663:GLN:HA	1:J:674:SER:HA	1.91	0.53
1:M:70:GLU:OE2	1:M:74:GLN:NE2	2.41	0.53
1:O:157:LYS:HD2	1:O:285:LEU:HD21	1.89	0.53
1:O:940:SER:HA	1:O:946:ARG:HG3	1.90	0.53
1:K:96:GLN:HG3	1:K:97:ARG:HD3	1.90	0.53
1:K:475:LEU:HD23	1:K:487:PHE:CD1	2.44	0.53
1:K:479:GLU:HB3	1:K:482:GLU:OE1	2.09	0.53
1:K:938:SER:HA	1:K:947:GLU:O	2.09	0.53
1:H:83:ILE:HD12	1:H:83:ILE:H	1.74	0.53
1:H:371:ARG:HH12	1:H:441:ARG:HD3	1.74	0.53
1:H:532:ASP:OD1	1:H:535:TYR:N	2.36	0.53
1:H:611:ARG:NH1	1:H:642:THR:OG1	2.42	0.53
1:H:623:ILE:HG23	1:H:644:LEU:HD21	1.91	0.53
1:J:656:ARG:NH1	1:J:680:LEU:HB2	2.24	0.53
1:J:1051:GLN:HG2	1:J:1091:GLN:OE1	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:235:LYS:N	1:M:238:GLU:OE2	2.42	0.53
1:M:1106:TYR:HB2	1:M:1110:GLN:NE2	2.23	0.53
1:O:61:LEU:HD23	1:O:65:LEU:HD23	1.91	0.53
1:O:241:LEU:HA	1:O:261:LYS:O	2.08	0.53
1:O:287:HIS:HD2	1:O:289:SER:OG	1.92	0.53
1:O:845:LEU:CA	1:O:858:GLU:HB3	2.38	0.53
1:O:1143:TYR:CD1	1:O:1153:LEU:HD22	2.43	0.53
2:D:12:LYS:HA	2:D:15:ARG:HD3	1.89	0.53
2:D:92:ASN:OD1	2:D:93:ALA:N	2.42	0.53
2:F:26:VAL:HA	2:F:72:HIS:CD2	2.42	0.53
2:G:58:LYS:NZ	1:Q:656:ARG:HG2	2.24	0.53
2:G:95:ARG:NH1	2:G:103:ALA:HB1	2.24	0.53
1:Q:110:ARG:HA	1:Q:113:LEU:HD12	1.91	0.53
1:I:21:ASP:N	1:I:21:ASP:OD1	2.42	0.53
1:I:34:ASP:O	1:I:36:PRO:HD3	2.09	0.53
1:K:414:GLN:NE2	1:K:419:THR:HG23	2.24	0.53
1:K:521:LEU:O	1:K:525:LYS:HG2	2.09	0.53
1:K:1042:ASP:OD2	1:K:1060:TYR:CE1	2.61	0.53
1:K:1126:LEU:HD13	1:K:1128:ILE:O	2.09	0.53
1:H:660:PHE:C	1:H:676:LYS:HB2	2.29	0.52
1:J:39:ILE:HD12	1:J:76:PHE:HB2	1.91	0.52
1:J:484:MET:O	1:J:484:MET:HE1	2.08	0.52
1:J:660:PHE:CD1	1:J:676:LYS:CE	2.92	0.52
1:L:36:PRO:HD2	1:L:39:ILE:HG21	1.91	0.52
1:L:44:GLU:OE2	1:L:60:ARG:HD3	2.08	0.52
1:L:274:PHE:HD2	1:L:275:LEU:HD22	1.74	0.52
1:L:988:ASP:OD1	1:L:989:SER:N	2.41	0.52
1:L:1013:HIS:CE1	1:L:1056:GLU:HA	2.44	0.52
1:M:125:VAL:HB	1:M:300:LEU:HD13	1.90	0.52
1:O:90:SER:OG	1:O:91:PRO:HD3	2.08	0.52
1:O:432:LYS:HD2	1:O:433:LEU:HD23	1.91	0.52
1:O:928:VAL:HB	1:O:1225:ILE:HG21	1.90	0.52
1:Q:630:ILE:HD12	1:Q:644:LEU:HG	1.91	0.52
1:I:969:VAL:O	1:I:990:LYS:HE2	2.09	0.52
1:K:331:ILE:HG12	1:K:336:ALA:O	2.09	0.52
1:K:537:ARG:HD2	1:K:538:LEU:N	2.24	0.52
1:K:1071:ALA:HB3	1:K:1076:ALA:HB3	1.91	0.52
1:H:824:LYS:HG2	1:H:831:ILE:HG12	1.90	0.52
1:H:1148:ASP:HB2	1:H:1150:LYS:NZ	2.23	0.52
1:J:139:LEU:HB3	1:J:169:LYS:NZ	2.24	0.52
1:J:487:PHE:HB3	1:J:489:MET:CE	2.38	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:978:THR:O	1:J:985:LEU:HD12	2.09	0.52
1:J:1054:ILE:HG21	1:J:1070:VAL:H	1.74	0.52
1:L:610:GLY:HA2	1:L:906:ASP:O	2.09	0.52
1:L:803:LEU:HB2	1:L:816:LEU:HB2	1.91	0.52
1:L:1019:LYS:NZ	1:L:1060:TYR:OH	2.36	0.52
1:L:1136:LYS:HD3	1:L:1141:GLU:HB2	1.90	0.52
1:M:131:TYR:HE1	1:M:164:VAL:HA	1.73	0.52
1:O:696:GLN:HG2	2:N:57:GLY:HA2	1.91	0.52
1:O:1229:GLU:O	1:O:1231:VAL:HG23	2.09	0.52
2:A:19:ARG:HA	2:A:22:LEU:HG	1.90	0.52
1:Q:447:TYR:HB2	1:Q:478:ILE:HG21	1.90	0.52
1:Q:644:LEU:HD23	1:Q:897:ASN:OD1	2.08	0.52
1:I:660:PHE:HB3	1:I:663:GLN:HE21	1.75	0.52
1:K:749:GLN:HG2	1:K:760:VAL:HG13	1.91	0.52
1:H:51:SER:HB3	1:H:60:ARG:HE	1.75	0.52
1:H:254:ASN:HD21	1:H:274:PHE:HZ	1.58	0.52
1:H:347:ASP:O	1:H:351:THR:OG1	2.25	0.52
1:H:634:ASP:H	1:H:638:GLU:HG3	1.75	0.52
1:H:1226:TYR:CZ	1:H:1233:GLU:HG2	2.45	0.52
1:J:658:ALA:HB3	1:J:676:LYS:HD2	1.91	0.52
1:J:854:VAL:HG13	1:J:867:ARG:O	2.08	0.52
1:L:65:LEU:HG	1:L:73:VAL:HG12	1.90	0.52
1:M:479:GLU:HB3	1:M:482:GLU:OE1	2.09	0.52
1:M:499:GLN:NE2	1:M:500:LYS:HG3	2.24	0.52
1:M:940:SER:HB3	1:M:947:GLU:HB2	1.90	0.52
1:O:617:HIS:N	1:O:904:CYS:SG	2.82	0.52
1:O:806:PHE:CD1	1:O:813:PRO:HD3	2.44	0.52
1:O:1185:ILE:HD13	1:O:1226:TYR:HE1	1.74	0.52
2:N:62:MET:SD	2:N:66:ASP:HB3	2.48	0.52
2:F:69:VAL:O	2:F:73:ARG:N	2.40	0.52
1:I:229:ARG:NH2	1:I:257:ASN:O	2.39	0.52
1:K:64:THR:O	1:K:68:LYS:CE	2.57	0.52
1:K:143:PRO:HA	1:K:261:LYS:HG2	1.91	0.52
1:K:399:MET:HA	1:K:402:VAL:HG22	1.92	0.52
1:K:1030:GLN:HB3	1:K:1032:PHE:CZ	2.44	0.52
1:K:1061:LEU:HD11	1:K:1090:LEU:CA	2.38	0.52
1:H:77:VAL:HG21	1:H:92:ILE:HG21	1.91	0.52
1:H:660:PHE:CZ	1:H:677:LEU:HG	2.44	0.52
1:H:726:PRO:HA	1:H:737:ILE:O	2.09	0.52
1:H:1221:LYS:HD3	1:H:1237:ARG:HD2	1.92	0.52
1:J:241:LEU:HD13	1:J:261:LYS:O	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:715:VAL:CG1	1:J:727:GLU:OE1	2.56	0.52
1:L:146:ASN:HB3	1:L:262:ILE:HG13	1.91	0.52
1:M:437:TYR:CE1	1:M:439:LEU:HB3	2.45	0.52
1:M:441:ARG:HA	1:M:444:VAL:HG12	1.91	0.52
1:M:940:SER:O	1:M:946:ARG:N	2.42	0.52
1:O:533:PRO:O	1:O:537:ARG:CG	2.57	0.52
1:O:1042:ASP:HB3	1:O:1062:LYS:HD3	1.90	0.52
2:D:86:ALA:O	2:D:90:LEU:N	2.41	0.52
2:G:40:GLN:HA	1:Q:84:ASN:ND2	2.24	0.52
2:G:43:ILE:HG21	2:G:82:ARG:NH2	2.24	0.52
1:Q:12:TYR:CE2	1:Q:73:VAL:HG12	2.43	0.52
1:Q:302:LEU:HD21	1:Q:308:ARG:HA	1.90	0.52
1:I:26:ASN:O	1:I:85:TYR:OH	2.27	0.52
1:I:807:ASN:ND2	1:I:808:VAL:HG22	2.25	0.52
1:I:824:LYS:HA	1:I:831:ILE:HA	1.91	0.52
1:I:833:LYS:HD2	1:I:870:ASP:H	1.74	0.52
1:I:929:VAL:HG13	1:I:971:LEU:HA	1.91	0.52
1:K:153:LEU:HB2	1:K:267:ARG:NH1	2.25	0.52
1:H:53:ASP:OD2	1:H:56:SER:N	2.35	0.52
1:H:660:PHE:CB	1:H:676:LYS:C	2.78	0.52
1:H:898:VAL:HG22	1:H:900:GLU:OE2	2.10	0.52
1:H:978:THR:H	1:H:985:LEU:HD13	1.75	0.52
1:L:614:VAL:HB	1:L:904:CYS:O	2.09	0.52
1:L:855:GLN:OE1	1:L:856:LEU:N	2.43	0.52
1:M:341:TRP:CZ3	1:M:342:LYS:HD2	2.45	0.52
1:O:170:VAL:HG22	1:O:173:LYS:HZ3	1.73	0.52
1:O:786:CYS:H	1:O:817:ASP:HA	1.73	0.52
1:O:1180:ILE:O	1:O:1220:ARG:HG2	2.09	0.52
2:N:17:HIS:HA	2:N:20:LYS:HZ3	1.73	0.52
2:D:18:ILE:HD11	2:D:87:TYR:HE1	1.73	0.52
2:F:17:HIS:CE1	2:F:106:LEU:HA	2.44	0.52
1:Q:1040:ILE:C	1:Q:1042:ASP:H	2.13	0.52
1:I:970:TYR:CE1	1:I:991:GLU:CG	2.84	0.52
1:K:12:TYR:HE1	1:K:96:GLN:HG2	1.73	0.52
1:K:44:GLU:O	1:K:48:ILE:HD12	2.09	0.52
1:K:81:LEU:HD21	1:K:88:LEU:HB2	1.91	0.52
1:K:849:LEU:HD22	1:K:890:SER:HB3	1.92	0.52
1:H:142:ARG:HB3	1:H:145:LYS:HB2	1.91	0.52
1:H:851:SER:HB3	1:H:892:PRO:O	2.09	0.52
1:H:1109:LEU:HD13	1:H:1144:ILE:HD12	1.90	0.52
1:J:101:MET:O	1:J:105:MET:CG	2.53	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:353:ILE:HD13	1:J:430:LYS:HB2	1.92	0.52
1:J:484:MET:HE3	1:J:489:MET:HB2	1.91	0.52
1:L:179:PHE:N	1:L:241:LEU:O	2.39	0.52
1:L:941:ASN:N	1:L:946:ARG:HB3	2.24	0.52
1:L:1070:VAL:HG23	1:L:1078:LYS:HD2	1.92	0.52
1:M:632:LEU:HG	1:M:640:GLU:HB3	1.92	0.52
1:O:196:LEU:HD13	1:O:221:ILE:HD11	1.92	0.52
1:O:480:HIS:HA	1:O:483:ARG:HH12	1.74	0.52
2:E:93:ALA:O	2:E:97:ILE:HG12	2.09	0.52
2:G:25:LEU:HG	2:G:102:ALA:HB1	1.91	0.52
2:G:64:GLU:HA	2:G:67:VAL:HB	1.90	0.52
1:I:129:GLN:HA	1:I:132:LEU:HD12	1.91	0.52
1:I:157:LYS:HG3	1:I:267:ARG:HH22	1.75	0.52
1:I:522:LYS:O	1:I:526:PRO:CD	2.57	0.52
1:I:787:THR:HG22	1:I:843:PRO:HG3	1.90	0.52
1:I:987:VAL:HA	1:I:999:ALA:CB	2.39	0.52
1:K:319:THR:H	1:K:323:ARG:HH11	1.54	0.52
1:K:672:ASN:O	1:K:683:ASP:HA	2.09	0.52
1:H:93:LYS:HB2	1:H:97:ARG:NH1	2.25	0.52
1:H:823:SER:HG	1:H:833:LYS:H	1.56	0.52
1:J:74:GLN:HB2	1:J:75:LYS:NZ	2.25	0.52
1:J:705:PHE:N	1:J:705:PHE:CD1	2.77	0.52
1:J:706:ILE:O	1:J:716:ALA:CB	2.41	0.52
1:L:132:LEU:HA	1:L:135:ARG:NH1	2.25	0.52
1:L:666:LEU:HD22	1:L:707:GLY:CA	2.12	0.52
1:L:1040:ILE:HD11	1:L:1077:GLN:HG3	1.91	0.52
1:M:320:ASN:HB3	1:M:323:ARG:HB3	1.92	0.52
1:O:183:LEU:HD11	1:O:244:LEU:HD22	1.91	0.52
1:O:732:LEU:HG	1:O:734:VAL:H	1.74	0.52
1:O:934:LEU:HD13	1:O:1246:LEU:HD13	1.91	0.52
1:O:1224:LEU:HA	1:O:1235:CYS:HB2	1.92	0.52
2:A:47:GLN:NE2	2:A:51:ASN:HD22	2.08	0.52
2:A:67:VAL:O	2:A:71:GLN:HG3	2.09	0.52
2:A:73:ARG:HA	2:A:76:LEU:HB2	1.91	0.52
2:D:21:ASN:HD22	2:D:24:ILE:HD13	1.74	0.52
2:E:37:GLU:OE2	2:E:41:GLN:NE2	2.43	0.52
1:Q:216:ASN:HB2	1:Q:219:LEU:HB2	1.92	0.52
1:Q:354:GLU:HB3	1:Q:430:LYS:HG3	1.91	0.52
1:Q:771:PHE:O	1:Q:775:LEU:HD23	2.10	0.52
1:I:106:TYR:CE1	1:I:168:TYR:HA	2.45	0.52
1:I:752:GLU:OE1	1:I:757:HIS:HB3	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1064:VAL:HG22	1:I:1105:LYS:HG3	1.92	0.52
1:K:183:LEU:HD12	1:K:247:VAL:HG22	1.91	0.52
1:K:425:ILE:HA	1:K:429:LEU:HD13	1.91	0.52
1:H:778:TYR:HB3	1:H:779:TYR:CD2	2.45	0.52
1:H:782:CYS:O	1:H:784:SER:N	2.43	0.52
1:H:1030:GLN:CA	1:H:1030:GLN:NE2	2.73	0.52
1:H:1052:GLN:OE1	1:H:1058:ILE:CG1	2.54	0.52
1:H:1127:ASP:O	1:H:1129:ALA:N	2.42	0.52
1:L:97:ARG:HD2	1:L:98:GLN:NE2	2.25	0.52
1:L:100:SER:O	1:L:104:ARG:HG3	2.10	0.52
1:L:488:ARG:CG	1:L:491:PHE:HB2	2.40	0.52
1:L:966:GLU:N	1:L:967:PRO:HD3	2.24	0.52
1:M:171:GLN:HB3	1:M:176:PHE:CD1	2.45	0.52
1:M:805:VAL:O	1:M:814:LEU:N	2.43	0.52
1:M:979:ARG:HA	1:M:985:LEU:HD23	1.92	0.52
1:O:678:TRP:CD1	1:O:680:LEU:HG	2.45	0.52
2:C:70:GLU:HA	2:C:73:ARG:HH11	1.74	0.52
2:E:55:LEU:HD22	2:E:71:GLN:HG3	1.92	0.52
1:Q:134:LEU:HD21	1:Q:283:ILE:HG21	1.91	0.52
1:Q:437:TYR:CE1	1:Q:439:LEU:HB2	2.45	0.52
1:I:23:PHE:O	1:I:27:PHE:N	2.43	0.52
1:I:1111:GLU:N	1:I:1121:HIS:O	2.43	0.52
1:K:10:TYR:HB2	1:K:96:GLN:HE22	1.75	0.52
1:K:189:PRO:HA	1:K:192:VAL:HG22	1.92	0.52
1:K:475:LEU:HD12	1:K:478:ILE:HD11	1.92	0.52
1:K:624:ALA:HB3	1:K:629:GLN:H	1.74	0.52
1:H:93:LYS:HB2	1:H:97:ARG:HH12	1.75	0.52
1:J:287:HIS:HB3	1:J:290:MET:HG2	1.92	0.52
1:L:150:ASP:HB3	1:L:266:THR:OG1	2.10	0.52
1:L:157:LYS:HD2	1:L:267:ARG:NH1	2.25	0.52
1:L:404:LYS:O	1:L:407:LYS:HG2	2.10	0.52
1:L:611:ARG:NH2	1:L:643:TYR:O	2.42	0.52
1:L:923:ALA:HB3	1:L:941:ASN:O	2.09	0.52
1:L:962:LYS:NZ	1:L:984:LEU:HB2	2.25	0.52
1:L:992:ARG:HD3	1:L:995:LEU:HG	1.92	0.52
1:M:148:LEU:O	1:M:283:ILE:N	2.42	0.52
1:O:145:LYS:HE3	1:O:279:THR:C	2.29	0.52
2:D:87:TYR:HD1	2:D:90:LEU:HD21	1.75	0.52
1:Q:35:MET:HE1	1:Q:39:ILE:HG23	1.92	0.52
1:Q:39:ILE:HA	1:Q:72:MET:CE	2.39	0.52
1:Q:47:HIS:HE1	1:Q:60:ARG:HD3	1.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:623:ILE:HG21	1:Q:892:PRO:HG3	1.92	0.52
1:I:684:CYS:HG	1:I:691:GLY:CA	2.16	0.52
1:I:968:ASN:HB3	1:I:990:LYS:CE	2.25	0.52
1:H:350:THR:HA	1:H:353:ILE:HG22	1.92	0.52
1:J:270:GLN:HB2	1:J:407:LYS:HG3	1.92	0.52
1:J:897:ASN:HB3	1:J:911:PHE:HZ	1.74	0.52
1:L:862:ILE:HG13	1:L:863:THR:H	1.75	0.52
1:L:1013:HIS:CD2	1:L:1056:GLU:N	2.77	0.52
1:L:1068:ILE:HD13	1:L:1077:GLN:CD	2.30	0.52
1:M:277:ALA:HA	1:M:282:HIS:CE1	2.44	0.52
1:M:381:ILE:N	1:M:420:ILE:O	2.40	0.52
1:M:463:LEU:HD23	1:M:465:GLN:HG3	1.92	0.52
1:M:849:LEU:HB3	1:M:894:LEU:HD21	1.91	0.52
1:O:89:MET:SD	1:O:89:MET:N	2.80	0.52
1:O:270:GLN:HB2	1:O:407:LYS:HG3	1.91	0.52
2:N:70:GLU:OE2	2:N:73:ARG:NH1	2.43	0.52
2:D:100:LEU:HD12	2:D:103:ALA:HB3	1.92	0.52
2:F:44:LEU:HD21	2:F:78:LYS:HB3	1.91	0.52
2:G:15:ARG:NH1	2:G:80:THR:O	2.42	0.52
1:Q:376:PRO:HG2	1:Q:470:HIS:CE1	2.45	0.52
1:Q:623:ILE:HB	1:Q:897:ASN:HB2	1.92	0.52
1:Q:854:VAL:HG22	1:Q:868:SER:CB	2.40	0.52
1:Q:1109:LEU:HD13	1:Q:1144:ILE:HD13	1.91	0.52
1:I:110:ARG:NH1	1:I:111:ASP:OD1	2.43	0.52
1:I:786:CYS:O	1:I:843:PRO:HD3	2.10	0.52
1:I:1227:SER:HB3	1:I:1232:HIS:HB2	1.91	0.52
1:K:14:ASP:OD1	1:K:14:ASP:N	2.41	0.52
1:K:825:THR:HG22	1:K:832:PHE:CE2	2.45	0.52
1:H:659:VAL:O	1:H:677:LEU:HD12	2.11	0.51
1:H:898:VAL:HG23	1:H:908:TYR:CZ	2.45	0.51
1:H:978:THR:O	1:H:985:LEU:CD1	2.59	0.51
1:H:1019:LYS:CA	1:H:1029:GLU:HB3	2.39	0.51
1:H:1233:GLU:H	1:H:1246:LEU:C	2.12	0.51
1:J:241:LEU:HA	1:J:261:LYS:O	2.11	0.51
1:J:488:ARG:CG	1:J:491:PHE:HB2	2.17	0.51
1:L:52:LYS:HD3	1:L:56:SER:H	1.74	0.51
1:L:69:GLN:HE22	1:L:71:GLU:HB3	1.74	0.51
1:L:489:MET:N	1:L:489:MET:SD	2.83	0.51
1:O:219:LEU:HD23	1:O:220:ARG:HH11	1.75	0.51
1:O:326:ILE:HG21	1:O:349:LEU:HD21	1.92	0.51
1:Q:83:ILE:HG13	1:Q:84:ASN:N	2.22	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:624:ALA:HB3	1:I:629:GLN:H	1.75	0.51
1:I:854:VAL:HA	1:I:869:THR:O	2.10	0.51
1:I:1069:LEU:O	1:I:1078:LYS:N	2.30	0.51
1:K:1061:LEU:HA	1:K:1067:ASN:HB3	1.92	0.51
1:H:340:ASN:O	1:H:345:ASN:ND2	2.43	0.51
1:H:521:LEU:HD23	1:H:646:ARG:NH2	2.26	0.51
1:H:771:PHE:HB3	1:H:774:VAL:HB	1.92	0.51
1:H:1109:LEU:HD11	1:H:1126:LEU:HD12	1.93	0.51
1:J:319:THR:OG1	1:J:323:ARG:HD3	2.10	0.51
1:J:642:THR:O	1:J:649:SER:HB2	2.09	0.51
1:J:1149:LEU:H	1:J:1180:ILE:HA	1.74	0.51
1:M:372:LEU:HA	1:M:375:PHE:CE2	2.44	0.51
1:M:896:SER:HA	1:M:910:LEU:HA	1.92	0.51
1:O:371:ARG:HD2	1:O:389:ILE:HG22	1.91	0.51
1:O:620:PHE:CE2	1:O:662:GLN:HA	2.45	0.51
2:F:17:HIS:CD2	2:F:109:VAL:HG11	2.45	0.51
1:Q:463:LEU:HB2	1:Q:467:PHE:CD1	2.46	0.51
1:Q:970:TYR:CG	1:Q:976:ASP:OD1	2.63	0.51
1:I:780:VAL:HG13	1:I:781:VAL:N	2.24	0.51
1:I:989:SER:H	1:I:993:ILE:CG2	2.24	0.51
1:K:538:LEU:O	1:K:542:ILE:HG12	2.10	0.51
1:K:985:LEU:HD12	1:K:1030:GLN:HE22	1.75	0.51
1:H:431:VAL:O	1:H:435:ASN:ND2	2.43	0.51
1:J:403:ASN:HB3	1:J:404:LYS:HZ2	1.76	0.51
1:J:615:TYR:OH	1:J:636:SER:HA	2.09	0.51
1:J:762:LYS:N	1:J:762:LYS:CD	2.73	0.51
1:J:817:ASP:O	1:J:819:PHE:N	2.43	0.51
1:L:361:GLU:HB3	1:L:365:TYR:CE2	2.45	0.51
1:M:298:LYS:HA	1:M:301:LEU:HG	1.93	0.51
1:M:438:ALA:HA	1:M:440:HIS:CE1	2.45	0.51
1:M:719:LEU:HD21	1:M:751:GLN:HG3	1.93	0.51
1:O:274:PHE:HD2	1:O:275:LEU:HD22	1.74	0.51
1:O:326:ILE:HG12	1:O:345:ASN:HD21	1.74	0.51
1:O:1180:ILE:O	1:O:1220:ARG:CG	2.58	0.51
1:Q:39:ILE:HA	1:Q:72:MET:HE1	1.92	0.51
1:Q:44:GLU:O	1:Q:48:ILE:HG13	2.11	0.51
1:Q:708:SER:N	1:Q:715:VAL:O	2.41	0.51
1:Q:749:GLN:HG2	1:Q:760:VAL:HG13	1.93	0.51
1:Q:878:THR:HG23	1:Q:889:ILE:CB	2.39	0.51
1:Q:1130:ASN:ND2	1:Q:1145:VAL:O	2.41	0.51
1:I:152:VAL:O	1:I:157:LYS:NZ	2.29	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:LEU:HA	1:I:290:MET:HB3	1.92	0.51
1:K:844:GLY:N	1:K:858:GLU:HB3	2.25	0.51
1:H:232:LEU:HD12	1:H:237:TYR:HB3	1.91	0.51
1:H:476:LYS:CE	1:H:530:ASP:OD1	2.58	0.51
1:H:843:PRO:O	1:H:845:LEU:N	2.42	0.51
1:J:260:CYS:SG	1:J:261:LYS:N	2.84	0.51
1:J:357:LEU:HD13	1:J:430:LYS:HD2	1.91	0.51
1:J:488:ARG:CZ	1:J:491:PHE:HD2	2.20	0.51
1:J:803:LEU:HD22	1:J:845:LEU:C	2.30	0.51
1:J:1081:ILE:HG22	1:J:1083:GLN:HG3	1.92	0.51
1:L:117:ASN:ND2	1:L:120:PHE:HB3	2.25	0.51
1:L:1102:VAL:O	1:L:1102:VAL:HG23	2.10	0.51
1:O:62:PHE:HA	1:O:65:LEU:HG	1.93	0.51
1:O:758:VAL:HB	1:O:770:CYS:SG	2.51	0.51
1:Q:85:TYR:O	1:Q:86:LYS:HG3	2.10	0.51
1:I:35:MET:HA	1:I:40:LEU:HD23	1.91	0.51
1:I:525:LYS:HG2	1:I:526:PRO:HD3	1.89	0.51
1:I:638:GLU:HG2	1:I:654:ILE:HA	1.92	0.51
1:I:811:ASP:O	1:I:826:ALA:N	2.43	0.51
1:I:938:SER:CB	1:I:967:PRO:O	2.54	0.51
1:K:437:TYR:OH	1:K:440:HIS:HB2	2.09	0.51
1:J:142:ARG:HH21	1:K:10:TYR:HA	1.76	0.51
1:J:167:SER:HB3	1:J:170:VAL:HB	1.91	0.51
1:J:806:PHE:CE1	1:J:813:PRO:CA	2.94	0.51
1:L:199:LEU:O	1:L:202:GLN:NE2	2.44	0.51
1:L:1131:PRO:HD2	1:L:1145:VAL:O	2.11	0.51
1:L:1149:LEU:H	1:L:1180:ILE:HG23	1.75	0.51
1:M:181:LEU:HD12	1:M:242:LEU:HD21	1.92	0.51
1:M:336:ALA:N	1:M:340:ASN:OD1	2.44	0.51
1:O:48:ILE:HD11	1:O:64:THR:HG21	1.92	0.51
2:D:25:LEU:O	2:D:29:THR:OG1	2.28	0.51
2:E:80:THR:OG1	2:E:81:GLN:OE1	2.23	0.51
1:J:619:ASP:H	1:J:634:ASP:HA	1.76	0.51
1:J:1050:PRO:HB3	1:J:1061:LEU:N	2.16	0.51
1:L:221:ILE:HA	1:L:224:ILE:HG22	1.92	0.51
1:M:656:ARG:CZ	1:M:680:LEU:HB2	2.41	0.51
1:O:119:VAL:O	1:O:123:TYR:N	2.40	0.51
1:O:478:ILE:HG13	1:O:479:GLU:H	1.75	0.51
1:O:992:ARG:HB2	1:O:995:LEU:HB3	1.92	0.51
2:C:86:ALA:O	2:C:90:LEU:N	2.29	0.51
1:Q:702:VAL:HG12	1:Q:705:PHE:CE2	2.42	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:930:HIS:NE2	1:Q:1226:TYR:O	2.43	0.51
1:I:968:ASN:HD21	1:I:1009:ILE:CB	2.23	0.51
1:K:401:VAL:O	1:K:405:LEU:HG	2.10	0.51
1:H:131:TYR:HB3	1:H:135:ARG:HH21	1.75	0.51
1:H:174:MET:SD	1:H:241:LEU:HD23	2.50	0.51
1:H:469:SER:HA	1:H:523:PHE:CZ	2.46	0.51
1:H:483:ARG:HD3	1:H:530:ASP:O	2.10	0.51
1:H:975:MET:CA	1:H:988:ASP:O	2.42	0.51
1:H:1028:ASP:CB	1:H:1039:VAL:HA	2.39	0.51
1:J:106:TYR:HE2	1:J:171:GLN:CB	2.20	0.51
1:J:298:LYS:O	1:J:302:LEU:HD23	2.10	0.51
1:J:829:LEU:N	1:J:829:LEU:HD13	2.26	0.51
1:L:30:LYS:NZ	1:L:49:ILE:HA	2.26	0.51
1:L:136:GLN:HA	1:L:139:LEU:HG	1.93	0.51
1:L:287:HIS:HD2	1:L:290:MET:H	1.58	0.51
1:L:643:TYR:CE2	1:L:648:GLU:HG3	2.45	0.51
1:M:63:TRP:HH2	1:M:128:LEU:HA	1.76	0.51
1:M:69:GLN:OE1	1:M:71:GLU:HG3	2.11	0.51
1:M:496:PHE:HB2	1:M:561:LEU:HD22	1.92	0.51
1:O:320:ASN:ND2	1:O:323:ARG:H	2.08	0.51
1:O:443:ILE:HA	1:O:446:HIS:HB2	1.91	0.51
1:O:811:ASP:O	1:O:812:THR:OG1	2.21	0.51
2:C:58:LYS:N	2:C:59:PRO:HD2	2.26	0.51
1:Q:622:LEU:HD11	1:Q:665:HIS:CD2	2.45	0.51
1:Q:785:ASN:HB2	1:Q:820:ASP:OD2	2.10	0.51
1:I:182:ASN:HB2	1:I:184:LYS:HE2	1.92	0.51
1:I:1051:GLN:HG2	1:I:1057:PRO:HD2	1.93	0.51
1:K:770:CYS:HA	1:K:778:TYR:H	1.74	0.51
1:K:894:LEU:HB3	1:K:911:PHE:HE2	1.75	0.51
1:K:1195:VAL:HB	1:K:1200:GLY:HA2	1.93	0.51
1:H:122:LYS:HD2	1:O:276:SER:HA	1.93	0.51
1:H:640:GLU:CG	1:H:652:SER:HA	2.41	0.51
1:H:956:GLU:OE1	1:H:988:ASP:HB3	2.10	0.51
1:H:966:GLU:O	1:H:978:THR:CG2	2.58	0.51
1:J:403:ASN:HB3	1:J:404:LYS:NZ	2.26	0.51
1:J:411:VAL:HG23	1:J:422:ILE:HD13	1.92	0.51
1:J:665:HIS:HA	1:J:672:ASN:HB3	1.93	0.51
1:J:702:VAL:CG1	1:J:705:PHE:CE1	2.93	0.51
1:J:760:VAL:HG21	1:J:768:ILE:HG13	1.93	0.51
1:L:81:LEU:HD11	1:L:88:LEU:HB3	1.93	0.51
1:L:232:LEU:HD11	1:L:260:CYS:HB2	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:367:LYS:O	1:M:371:ARG:HG2	2.11	0.51
1:M:1065:SER:HB3	1:M:1105:LYS:NZ	2.26	0.51
1:O:881:GLY:HA2	1:O:1239:LEU:HD22	1.93	0.51
1:O:977:MET:HB2	1:O:1009:ILE:HG21	1.93	0.51
2:A:26:VAL:HA	2:A:72:HIS:HD2	1.76	0.51
2:A:70:GLU:OE2	2:A:73:ARG:NH1	2.44	0.51
2:G:29:THR:HG22	2:G:99:CYS:HB3	1.92	0.51
2:G:101:ASP:N	2:G:101:ASP:OD1	2.42	0.51
1:Q:612:HIS:O	1:Q:614:VAL:N	2.44	0.51
1:Q:849:LEU:HD11	1:Q:854:VAL:C	2.31	0.51
1:I:182:ASN:HA	1:I:245:LEU:HB3	1.92	0.51
1:K:499:GLN:HE22	1:K:516:ASN:HB2	1.74	0.51
1:K:558:TYR:CE2	1:K:581:VAL:HG23	2.37	0.51
1:K:679:SER:O	1:K:702:VAL:N	2.43	0.51
1:H:709:TYR:CD2	1:H:713:LYS:HD2	2.46	0.51
1:J:478:ILE:HG13	1:J:479:GLU:N	2.25	0.51
1:J:1150:LYS:HD3	1:J:1150:LYS:N	2.25	0.51
1:J:1154:LEU:HD21	1:J:1166:PHE:CZ	2.46	0.51
1:L:669:LEU:CD2	1:L:669:LEU:N	2.73	0.51
1:L:712:LEU:HD23	1:L:713:LYS:HB2	1.93	0.51
1:L:1013:HIS:CE1	1:L:1056:GLU:N	2.79	0.51
1:M:275:LEU:O	1:O:122:LYS:NZ	2.28	0.51
1:M:617:HIS:O	1:M:634:ASP:HB3	2.09	0.51
2:A:37:GLU:OE2	2:A:40:GLN:NE2	2.44	0.51
1:Q:386:LEU:HA	1:Q:389:ILE:HG22	1.92	0.51
1:Q:412:GLU:O	1:Q:420:ILE:HG23	2.10	0.51
1:Q:640:GLU:N	1:Q:652:SER:HA	2.04	0.51
1:Q:1045:HIS:HD2	1:Q:1062:LYS:HG2	1.76	0.51
1:I:362:PRO:HB3	1:I:366:ARG:HE	1.76	0.51
1:I:663:GLN:O	1:I:664:LYS:HD3	2.11	0.51
1:I:980:GLU:HB2	1:I:984:LEU:HB2	1.92	0.51
1:K:31:ASP:N	1:K:33:GLN:HE22	2.09	0.51
1:K:133:LYS:HE3	1:K:283:ILE:HG23	1.92	0.51
1:H:463:LEU:HD13	1:H:467:PHE:CE1	2.46	0.51
1:H:484:MET:HE3	1:H:490:VAL:CG2	2.40	0.51
1:H:680:LEU:CD2	1:H:696:GLN:HB3	2.41	0.51
1:H:709:TYR:HD2	1:H:713:LYS:HD2	1.75	0.51
1:H:1018:CYS:SG	1:H:1019:LYS:N	2.84	0.51
1:H:1094:ASP:HA	1:H:1135:VAL:HG21	1.93	0.51
1:L:406:HIS:ND1	1:L:411:VAL:O	2.43	0.51
1:L:816:LEU:HD12	1:L:846:SER:HB3	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:845:LEU:HB2	1:O:858:GLU:CA	2.38	0.51
2:N:19:ARG:NH1	2:N:20:LYS:HB3	2.26	0.51
2:B:89:LEU:O	2:B:93:ALA:N	2.35	0.51
2:E:55:LEU:HD21	2:E:70:GLU:HB2	1.92	0.51
2:E:58:LYS:N	2:E:59:PRO:HD2	2.26	0.51
2:F:45:THR:H	2:F:48:MET:HB3	1.75	0.51
1:Q:171:GLN:HB3	1:Q:176:PHE:CD1	2.46	0.51
1:Q:367:LYS:O	1:Q:371:ARG:HG2	2.11	0.51
1:I:380:HIS:HB2	1:I:465:GLN:NE2	2.26	0.51
1:I:475:LEU:HD23	1:I:487:PHE:CD1	2.46	0.51
1:K:149:ILE:HA	1:K:283:ILE:HB	1.92	0.51
1:K:155:SER:H	1:K:157:LYS:NZ	2.08	0.51
1:K:771:PHE:HB2	1:K:776:LYS:H	1.76	0.51
1:K:1083:GLN:OE1	1:K:1103:SER:OG	2.26	0.51
1:H:142:ARG:HB3	1:H:145:LYS:H	1.76	0.50
1:H:568:ALA:HB3	1:H:573:ILE:HD11	1.91	0.50
1:J:71:GLU:HA	1:J:74:GLN:HG2	1.93	0.50
1:J:926:LYS:HE3	1:J:1225:ILE:HD12	1.92	0.50
1:L:900:GLU:OE1	1:L:900:GLU:N	2.45	0.50
1:L:1019:LYS:HB3	1:L:1050:PRO:HB2	1.93	0.50
1:M:1136:LYS:HD2	1:M:1190:LYS:HD3	1.93	0.50
1:Q:226:ALA:O	1:I:201:TYR:OH	2.24	0.50
1:Q:928:VAL:HG22	1:Q:937:VAL:HG12	1.93	0.50
1:Q:1010:THR:O	1:Q:1019:LYS:HG2	2.11	0.50
1:K:475:LEU:HD11	1:K:482:GLU:HB3	1.93	0.50
1:H:127:ARG:HH11	1:H:296:GLU:HG3	1.76	0.50
1:J:480:HIS:CD2	1:J:481:PRO:HD3	2.46	0.50
1:J:706:ILE:HD11	1:J:750:ASP:O	2.10	0.50
1:J:822:ARG:HG2	1:J:834:TYR:CE1	2.47	0.50
1:J:965:LEU:HG	1:J:981:ARG:HH22	1.76	0.50
1:J:1019:LYS:HG2	1:J:1029:GLU:HG2	1.92	0.50
1:J:1049:LEU:N	1:J:1050:PRO:CD	2.72	0.50
1:L:260:CYS:SG	1:L:261:LYS:N	2.84	0.50
1:L:349:LEU:HA	1:L:352:ILE:HG12	1.93	0.50
1:L:537:ARG:HA	1:L:540:ASN:ND2	2.24	0.50
1:L:961:THR:CB	1:L:988:ASP:OD2	2.59	0.50
1:M:39:ILE:HD12	1:M:75:LYS:HB2	1.93	0.50
1:M:449:ILE:O	1:M:452:THR:OG1	2.27	0.50
1:O:61:LEU:O	1:O:64:THR:OG1	2.27	0.50
1:O:952:HIS:ND1	1:O:1244:CYS:HB3	2.26	0.50
2:G:82:ARG:HG2	1:Q:87:PHE:CE2	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:234:SER:HB2	1:Q:237:TYR:HB2	1.93	0.50
1:Q:818:VAL:HG12	1:Q:819:PHE:CD2	2.46	0.50
1:I:534:LYS:HE2	1:I:537:ARG:HH22	1.62	0.50
1:I:754:LYS:HB2	1:I:757:HIS:HD2	1.72	0.50
1:K:101:MET:CE	1:K:101:MET:HA	2.42	0.50
1:K:520:GLN:HA	1:K:523:PHE:CD2	2.46	0.50
1:K:989:SER:HB3	1:K:992:ARG:CZ	2.41	0.50
1:K:1136:LYS:HE3	1:K:1141:GLU:HB3	1.92	0.50
1:H:189:PRO:HB3	1:H:218:LYS:HD3	1.92	0.50
1:H:816:LEU:HD13	1:H:843:PRO:HG2	1.94	0.50
1:H:879:SER:O	1:H:888:LYS:NZ	2.40	0.50
1:J:120:PHE:O	1:J:124:ASN:N	2.44	0.50
1:J:914:VAL:HA	1:J:917:TYR:CE2	2.45	0.50
1:J:929:VAL:HG21	1:J:936:SER:HB3	1.94	0.50
1:J:979:ARG:CD	1:J:1009:ILE:HD13	2.40	0.50
1:L:923:ALA:CB	1:L:942:SER:HA	2.35	0.50
1:M:199:LEU:O	1:M:202:GLN:HG2	2.11	0.50
1:M:380:HIS:ND1	1:M:421:SER:HB3	2.25	0.50
1:M:684:CYS:HA	1:M:691:GLY:H	1.76	0.50
1:O:174:MET:SD	1:O:241:LEU:HD23	2.52	0.50
1:O:219:LEU:O	1:O:222:HIS:NE2	2.44	0.50
1:O:380:HIS:ND1	1:O:421:SER:HB3	2.26	0.50
1:O:387:SER:HA	1:O:398:VAL:HG11	1.93	0.50
1:O:413:LYS:HG2	1:O:420:ILE:HG12	1.94	0.50
1:O:1203:LEU:HG	1:O:1204:ALA:H	1.76	0.50
2:F:71:GLN:HG2	2:F:74:ARG:NH2	2.27	0.50
1:Q:478:ILE:HG13	1:Q:479:GLU:H	1.76	0.50
1:Q:522:LYS:HD2	1:Q:525:LYS:HZ1	1.76	0.50
1:Q:618:ASN:HD21	1:Q:906:ASP:N	2.09	0.50
1:Q:908:TYR:CD1	1:Q:908:TYR:C	2.85	0.50
1:Q:1180:ILE:HB	1:Q:1220:ARG:NH1	2.25	0.50
1:I:41:SER:N	1:I:44:GLU:OE2	2.45	0.50
1:I:135:ARG:NH1	1:I:136:GLN:HB2	2.26	0.50
1:I:183:LEU:HB3	1:I:186:CYS:SG	2.51	0.50
1:K:54:ALA:HA	1:K:57:GLY:HA3	1.94	0.50
1:K:174:MET:HE1	1:K:240:CYS:HA	1.92	0.50
1:K:928:VAL:HB	1:K:1225:ILE:HG21	1.94	0.50
1:K:1061:LEU:CD1	1:K:1090:LEU:HA	2.41	0.50
1:H:83:ILE:O	1:H:86:LYS:NZ	2.44	0.50
1:H:683:ASP:N	1:H:694:LYS:HE2	2.25	0.50
1:H:849:LEU:HD21	1:H:866:LYS:HE3	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:129:GLN:HB3	1:J:130:PRO:HD3	1.93	0.50
1:J:634:ASP:C	1:J:636:SER:H	2.14	0.50
1:J:820:ASP:OD2	1:J:834:TYR:HD1	1.95	0.50
1:J:844:GLY:H	1:J:858:GLU:HB2	1.75	0.50
1:J:996:ILE:HG22	1:J:998:PRO:HG3	1.93	0.50
1:J:1062:LYS:NZ	1:J:1066:PRO:HB2	2.26	0.50
1:L:704:ARG:HB2	1:L:719:LEU:HB2	1.92	0.50
1:L:718:TYR:O	1:L:726:PRO:HD2	2.12	0.50
1:M:977:MET:O	1:M:978:THR:OG1	2.19	0.50
1:O:101:MET:N	1:O:104:ARG:HH21	2.10	0.50
1:O:132:LEU:O	1:O:135:ARG:HG2	2.11	0.50
1:O:374:VAL:HG21	1:O:446:HIS:CE1	2.46	0.50
1:O:666:LEU:N	1:O:671:CYS:O	2.33	0.50
1:O:727:GLU:O	1:O:736:PHE:N	2.45	0.50
1:O:1126:LEU:HD12	1:O:1130:ASN:OD1	2.11	0.50
1:O:1218:GLU:CG	1:O:1239:LEU:H	2.25	0.50
2:N:55:LEU:HD13	2:N:58:LYS:HG2	1.94	0.50
2:C:68:ARG:HH21	2:C:71:GLN:NE2	2.09	0.50
1:Q:720:ASN:ND2	1:Q:726:PRO:HG3	2.26	0.50
1:Q:720:ASN:HD21	1:Q:726:PRO:HG3	1.75	0.50
1:Q:887:LEU:O	1:Q:887:LEU:HG	2.11	0.50
1:Q:887:LEU:CB	1:Q:907:ILE:HG13	2.41	0.50
1:Q:990:LYS:H	1:Q:992:ARG:NH1	2.09	0.50
1:I:319:THR:HB	1:I:323:ARG:HD3	1.93	0.50
1:I:968:ASN:CB	1:I:990:LYS:HG3	2.35	0.50
1:I:1123:VAL:HG22	1:I:1154:LEU:HD13	1.93	0.50
1:I:1149:LEU:H	1:I:1180:ILE:HA	1.76	0.50
1:K:486:LEU:HD13	1:K:488:ARG:CZ	2.42	0.50
1:H:928:VAL:CB	1:H:1234:HIS:CD2	2.87	0.50
1:J:90:SER:O	1:J:94:THR:OG1	2.22	0.50
1:J:483:ARG:HG2	1:J:483:ARG:HH21	1.76	0.50
1:J:864:CYS:SG	1:J:888:LYS:NZ	2.84	0.50
1:L:135:ARG:O	1:L:169:LYS:NZ	2.45	0.50
1:L:757:HIS:HA	1:L:772:VAL:HG21	1.90	0.50
1:L:783:THR:CG2	1:L:822:ARG:HE	2.16	0.50
1:L:806:PHE:O	1:L:848:SER:OG	2.29	0.50
1:L:898:VAL:HG22	1:L:908:TYR:CD1	2.46	0.50
1:L:922:GLY:H	1:L:1239:LEU:C	2.14	0.50
1:M:48:ILE:HG12	1:M:52:LYS:CE	2.42	0.50
1:M:136:GLN:HA	1:M:139:LEU:HD23	1.92	0.50
1:M:216:ASN:HB3	1:M:218:LYS:HG3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:704:ARG:HD3	1:M:705:PHE:H	1.76	0.50
1:O:18:VAL:HG22	1:O:168:TYR:CE2	2.46	0.50
1:O:756:SER:HA	1:O:773:GLN:HE22	1.76	0.50
1:O:936:SER:HB2	1:O:950:TRP:CH2	2.46	0.50
2:B:87:TYR:HA	2:B:90:LEU:HD12	1.94	0.50
2:E:31:TYR:HA	2:E:72:HIS:ND1	2.26	0.50
2:F:11:PRO:HD2	2:F:14:HIS:ND1	2.27	0.50
2:G:13:ARG:HD3	2:G:109:VAL:HG22	1.93	0.50
1:Q:380:HIS:CD2	1:Q:465:GLN:HG2	2.47	0.50
1:Q:458:LEU:O	1:Q:460:PRO:HD3	2.12	0.50
1:Q:637:LEU:HD13	1:Q:658:ALA:H	1.75	0.50
1:Q:681:TRP:CE3	1:Q:705:PHE:CE1	2.99	0.50
1:Q:1045:HIS:CD2	1:Q:1062:LYS:HG2	2.47	0.50
1:I:193:LEU:O	1:I:197:GLN:HG2	2.12	0.50
1:I:480:HIS:O	1:I:483:ARG:HB3	2.12	0.50
1:I:646:ARG:HB3	1:I:648:GLU:HG3	1.92	0.50
1:I:785:ASN:ND2	1:I:818:VAL:O	2.44	0.50
1:I:995:LEU:O	1:I:995:LEU:HD13	2.11	0.50
1:I:1030:GLN:O	1:I:1030:GLN:HG3	2.12	0.50
1:K:360:LEU:HD12	1:K:365:TYR:HB2	1.93	0.50
1:K:666:LEU:HD13	1:K:730:ILE:HD13	1.93	0.50
1:H:152:VAL:O	1:H:157:LYS:NZ	2.38	0.50
1:H:175:ASP:OD1	1:H:239:ASN:ND2	2.45	0.50
1:L:712:LEU:HG	1:L:712:LEU:O	2.07	0.50
1:L:1236:ILE:HB	1:L:1241:PHE:CE2	2.46	0.50
1:M:45:ILE:O	1:M:49:ILE:HG12	2.12	0.50
1:M:719:LEU:HB3	1:M:749:GLN:HB2	1.93	0.50
2:C:14:HIS:HB3	2:C:87:TYR:HE2	1.75	0.50
2:D:17:HIS:HA	2:D:20:LYS:HZ3	1.75	0.50
2:D:48:MET:HA	2:D:51:ASN:ND2	2.27	0.50
2:G:31:TYR:HB2	2:G:72:HIS:HB2	1.93	0.50
1:Q:405:LEU:HG	1:Q:410:LEU:HB2	1.93	0.50
1:Q:679:SER:CB	1:Q:696:GLN:HE22	2.24	0.50
1:Q:704:ARG:CB	1:Q:704:ARG:HH11	2.24	0.50
1:Q:890:SER:OG	1:Q:898:VAL:CG2	2.60	0.50
1:I:405:LEU:CB	1:I:410:LEU:CD2	2.52	0.50
1:K:384:ILE:O	1:K:388:LEU:HG	2.11	0.50
1:K:632:LEU:HB2	1:K:640:GLU:HB3	1.94	0.50
1:K:675:VAL:HB	1:K:681:TRP:CZ2	2.47	0.50
1:H:1164:ASP:HB3	1:H:1166:PHE:CZ	2.47	0.50
1:H:1189:ALA:O	1:H:1190:LYS:HG2	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:104:ARG:O	1:J:107:ILE:HG22	2.11	0.50
1:J:132:LEU:HA	1:J:135:ARG:HH11	1.77	0.50
1:J:400:VAL:O	1:J:404:LYS:HG2	2.12	0.50
1:J:669:LEU:O	1:J:686:GLY:CA	2.58	0.50
1:J:1007:SER:OG	1:J:1021:ASN:O	2.29	0.50
1:L:326:ILE:HD11	1:L:348:LYS:HD2	1.94	0.50
1:L:660:PHE:HA	1:L:676:LYS:HG2	1.93	0.50
1:L:896:SER:HB2	1:L:908:TYR:OH	2.12	0.50
1:L:948:ILE:N	1:L:957:ILE:O	2.31	0.50
1:L:1029:GLU:HB3	1:L:1036:VAL:O	2.11	0.50
1:M:231:LEU:HD23	1:M:231:LEU:C	2.31	0.50
1:M:623:ILE:HG12	1:M:630:ILE:HG12	1.93	0.50
1:O:447:TYR:C	1:O:450:PRO:HD2	2.31	0.50
1:O:683:ASP:H	1:O:692:GLY:CA	2.25	0.50
1:O:746:TRP:HA	1:O:749:GLN:NE2	2.27	0.50
1:O:1039:VAL:HG12	1:O:1041:ILE:HG13	1.93	0.50
1:O:1112:GLY:HA2	1:O:1120:ASP:HB2	1.94	0.50
2:A:23:ASN:HA	2:A:26:VAL:CG1	2.32	0.50
1:Q:384:ILE:O	1:Q:388:LEU:HG	2.11	0.50
1:Q:499:GLN:HE22	1:Q:516:ASN:HA	1.75	0.50
1:Q:934:LEU:HB2	1:Q:950:TRP:HE3	1.76	0.50
1:Q:1109:LEU:HD13	1:Q:1144:ILE:HG21	1.94	0.50
1:I:360:LEU:HB2	1:I:365:TYR:HD2	1.76	0.50
1:I:384:ILE:O	1:I:388:LEU:HG	2.12	0.50
1:I:447:TYR:O	1:I:450:PRO:HD2	2.12	0.50
1:I:768:ILE:HG12	1:I:777:ARG:CB	2.38	0.50
1:I:1049:LEU:HB2	1:I:1061:LEU:HB2	1.92	0.50
1:K:26:ASN:OD1	1:K:27:PHE:N	2.45	0.50
1:K:48:ILE:HG21	1:K:61:LEU:HD21	1.94	0.50
1:K:1143:TYR:HB3	1:K:1184:GLU:OE1	2.12	0.50
1:H:152:VAL:CG2	1:H:155:SER:HB2	2.41	0.50
1:H:441:ARG:HA	1:H:444:VAL:HG12	1.94	0.50
1:H:531:ASN:ND2	1:H:535:TYR:CG	2.79	0.50
1:H:666:LEU:HD12	1:H:671:CYS:H	1.76	0.50
1:H:771:PHE:HD2	1:H:776:LYS:O	1.95	0.50
1:H:833:LYS:HG2	1:H:872:ARG:NE	2.26	0.50
1:J:249:ASN:ND2	1:J:270:GLN:OE1	2.31	0.50
1:J:641:ASP:C	1:J:649:SER:HB3	2.31	0.50
1:J:656:ARG:NH1	1:J:676:LYS:HB2	2.26	0.50
1:J:760:VAL:CG2	1:J:768:ILE:H	2.24	0.50
1:J:761:LEU:HB2	1:J:804:HIS:CD2	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:828:VAL:HB	1:J:829:LEU:HD13	1.92	0.50
1:L:27:PHE:HD1	1:L:85:TYR:CE2	2.30	0.50
1:L:207:TRP:HZ3	1:L:227:GLU:HG2	1.77	0.50
1:L:478:ILE:HG13	1:L:479:GLU:H	1.76	0.50
1:L:962:LYS:HE2	1:L:980:GLU:HB2	1.94	0.50
1:L:1234:HIS:CD2	1:L:1241:PHE:CE1	2.87	0.50
1:M:180:TRP:HA	1:M:243:VAL:HG12	1.93	0.50
1:M:200:LEU:HD21	1:M:207:TRP:HB2	1.93	0.50
1:M:623:ILE:HG23	1:M:644:LEU:HD22	1.93	0.50
1:M:704:ARG:HB3	1:M:719:LEU:HB2	1.93	0.50
1:M:771:PHE:HB2	1:M:776:LYS:H	1.76	0.50
1:O:221:ILE:HA	1:O:224:ILE:HG22	1.94	0.50
1:O:618:ASN:HA	1:O:634:ASP:HA	1.92	0.50
1:O:769:ARG:O	1:O:778:TYR:N	2.34	0.50
1:O:1007:SER:CB	1:O:1047:THR:O	2.54	0.50
2:C:82:ARG:HH22	1:K:86:LYS:HB2	1.76	0.50
2:F:10:MET:HG3	2:F:87:TYR:HB2	1.93	0.50
2:G:63:ASP:O	2:G:67:VAL:HG23	2.11	0.50
1:Q:90:SER:OG	1:Q:91:PRO:HD3	2.12	0.50
1:Q:287:HIS:HB2	1:Q:290:MET:HG2	1.93	0.50
1:I:106:TYR:OH	1:I:166:LEU:O	2.28	0.50
1:I:451:LYS:HD3	1:I:454:ASP:HB2	1.92	0.50
1:I:478:ILE:HG13	1:I:479:GLU:H	1.77	0.50
1:I:804:HIS:HA	1:I:814:LEU:O	2.12	0.50
1:K:19:PHE:HZ	1:K:92:ILE:HG12	1.77	0.50
1:K:630:ILE:CG1	1:K:644:LEU:HD23	2.41	0.50
1:K:1067:ASN:HD22	1:K:1091:GLN:HB2	1.77	0.50
1:H:12:TYR:CZ	1:H:96:GLN:HG2	2.46	0.50
1:H:529:CYS:SG	1:H:530:ASP:N	2.85	0.50
1:H:1064:VAL:HA	1:H:1105:LYS:HE2	1.94	0.50
1:J:266:THR:HG21	1:J:272:THR:HB	1.93	0.50
1:J:620:PHE:HD1	1:J:887:LEU:CD1	2.10	0.50
1:J:752:GLU:HG2	1:J:757:HIS:CB	2.42	0.50
1:J:1066:PRO:HA	1:J:1081:ILE:O	2.12	0.50
1:L:964:CYS:SG	1:L:981:ARG:NH1	2.85	0.50
1:M:76:PHE:HA	1:M:80:VAL:HB	1.94	0.50
1:M:153:LEU:HG	1:M:153:LEU:O	2.11	0.50
1:M:563:ARG:HH22	1:M:1245:LYS:HD2	1.76	0.50
1:M:675:VAL:HB	1:M:681:TRP:CE2	2.47	0.50
1:O:167:SER:HB3	1:O:170:VAL:HB	1.93	0.50
2:C:48:MET:HA	2:C:51:ASN:HD21	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:321:PRO:O	1:Q:325:SER:CB	2.60	0.50
1:Q:621:CYS:CB	1:Q:898:VAL:HG13	2.40	0.50
1:Q:673:GLY:CA	1:Q:683:ASP:HA	2.40	0.50
1:Q:814:LEU:HD23	1:Q:823:SER:HA	1.93	0.50
1:Q:837:TRP:CH2	1:Q:841:PHE:HB2	2.47	0.50
1:Q:878:THR:CG2	1:Q:889:ILE:HB	2.42	0.50
1:I:675:VAL:HG23	1:I:681:TRP:CE2	2.46	0.50
1:I:866:LYS:HE2	1:I:876:LEU:HD12	1.93	0.50
1:K:60:ARG:O	1:K:64:THR:CG2	2.35	0.50
1:K:117:ASN:HD22	1:K:162:LEU:HD21	1.76	0.50
1:K:485:THR:O	1:K:488:ARG:NH1	2.45	0.50
1:K:620:PHE:CZ	1:K:662:GLN:HG2	2.47	0.50
1:K:1151:ASN:CB	1:K:1166:PHE:CE2	2.95	0.50
1:H:192:VAL:O	1:H:196:LEU:HG	2.12	0.49
1:H:617:HIS:CB	1:H:635:VAL:HG23	2.23	0.49
1:J:48:ILE:CA	1:J:60:ARG:HH22	2.18	0.49
1:J:112:ARG:O	1:J:112:ARG:HD3	2.12	0.49
1:J:684:CYS:HA	1:J:691:GLY:HA2	1.93	0.49
1:J:718:TYR:CE1	1:J:728:ALA:HB2	2.45	0.49
1:J:823:SER:OG	1:J:833:LYS:HB2	2.12	0.49
1:L:229:ARG:C	1:L:233:LYS:HZ2	2.16	0.49
1:L:675:VAL:HG22	1:L:681:TRP:HE1	1.76	0.49
1:L:837:TRP:HA	1:L:867:ARG:HH22	1.76	0.49
1:L:966:GLU:OE1	1:L:977:MET:HG3	2.11	0.49
1:L:1009:ILE:HD11	1:L:1020:ILE:CA	2.34	0.49
1:M:154:GLY:HA2	1:M:157:LYS:CE	2.42	0.49
1:O:525:LYS:CG	1:O:526:PRO:CD	2.84	0.49
1:O:658:ALA:HB3	1:O:676:LYS:HD2	1.94	0.49
1:O:845:LEU:CD2	1:O:862:ILE:HA	2.40	0.49
2:A:16:GLU:HA	2:A:19:ARG:NE	2.27	0.49
2:E:79:ILE:HG13	2:E:90:LEU:HD21	1.94	0.49
1:Q:142:ARG:NH2	1:I:112:ARG:HH21	2.10	0.49
1:Q:706:ILE:O	1:Q:717:PHE:HB2	2.11	0.49
1:K:64:THR:O	1:K:68:LYS:HE2	2.12	0.49
1:K:665:HIS:HA	1:K:672:ASN:HA	1.93	0.49
1:K:708:SER:HB3	1:K:715:VAL:HB	1.94	0.49
1:H:470:HIS:HB3	1:H:474:HIS:HE1	1.76	0.49
1:H:854:VAL:HG12	1:H:867:ARG:C	2.30	0.49
1:H:956:GLU:HA	1:H:990:LYS:CG	2.41	0.49
1:H:978:THR:O	1:H:985:LEU:HD22	2.12	0.49
1:H:1031:ILE:HG13	1:H:1036:VAL:HB	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1187:GLN:HG3	1:H:1189:ALA:H	1.76	0.49
1:J:567:MET:SD	1:J:567:MET:N	2.84	0.49
1:J:895:ARG:NH2	1:J:912:ASP:OD2	2.38	0.49
1:L:196:LEU:HD12	1:L:228:LEU:HD12	1.94	0.49
1:L:683:ASP:H	1:L:692:GLY:N	2.10	0.49
1:L:1062:LYS:H	1:L:1066:PRO:CA	2.24	0.49
1:M:518:LEU:HD21	1:M:522:LYS:HZ1	1.77	0.49
1:M:668:THR:HB	1:M:670:HIS:CE1	2.48	0.49
1:M:1102:VAL:CG2	1:M:1110:GLN:O	2.60	0.49
1:M:1108:SER:HG	1:M:1129:ALA:HA	1.75	0.49
1:O:253:TRP:CE2	1:O:257:ASN:HB3	2.47	0.49
1:O:1012:THR:O	1:O:1013:HIS:ND1	2.45	0.49
1:O:1065:SER:HB3	1:O:1084:LEU:H	1.76	0.49
2:C:93:ALA:O	2:C:97:ILE:HG12	2.12	0.49
2:F:95:ARG:NH2	2:F:100:LEU:HA	2.27	0.49
1:Q:371:ARG:HB3	1:Q:389:ILE:HG12	1.94	0.49
1:Q:704:ARG:NH1	1:Q:704:ARG:CB	2.73	0.49
1:Q:804:HIS:HA	1:Q:814:LEU:O	2.12	0.49
1:Q:935:ARG:NH1	1:Q:1233:GLU:O	2.44	0.49
1:Q:1019:LYS:NZ	1:Q:1021:ASN:HD21	2.10	0.49
1:I:153:LEU:HB3	1:I:267:ARG:HD3	1.94	0.49
1:I:989:SER:N	1:I:993:ILE:CG2	2.75	0.49
1:K:132:LEU:O	1:K:135:ARG:NH2	2.45	0.49
1:K:785:ASN:HB3	1:K:822:ARG:HH21	1.77	0.49
1:K:1029:GLU:O	1:K:1037:ASP:HA	2.11	0.49
1:H:406:HIS:HB2	1:H:411:VAL:O	2.12	0.49
1:H:611:ARG:HH21	1:H:630:ILE:HD12	1.66	0.49
1:J:317:LEU:HD23	1:J:324:LEU:HD12	1.93	0.49
1:J:813:PRO:HG2	1:J:824:LYS:HG3	1.92	0.49
1:J:1050:PRO:O	1:J:1091:GLN:OE1	2.31	0.49
1:L:200:LEU:O	1:L:204:ASP:N	2.30	0.49
1:L:978:THR:HG22	1:L:987:VAL:CG2	2.42	0.49
1:L:1110:GLN:NE2	1:L:1110:GLN:CA	2.73	0.49
1:M:296:GLU:O	1:M:300:LEU:HD23	2.12	0.49
1:M:545:PHE:O	1:M:548:LYS:HG2	2.12	0.49
1:M:661:ASN:HB2	1:M:675:VAL:HG13	1.94	0.49
1:M:862:ILE:HG12	1:M:882:LEU:O	2.12	0.49
1:M:1051:GLN:HB2	1:M:1059:ASP:HB2	1.94	0.49
1:M:1108:SER:OG	1:M:1129:ALA:C	2.50	0.49
1:O:618:ASN:N	1:O:904:CYS:SG	2.83	0.49
2:A:12:LYS:HA	2:A:15:ARG:HD3	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:26:VAL:HA	2:A:72:HIS:CD2	2.47	0.49
1:Q:148:LEU:HD23	1:Q:282:HIS:ND1	2.27	0.49
1:Q:159:TRP:HA	1:Q:162:LEU:HD12	1.94	0.49
1:Q:704:ARG:HB3	1:Q:704:ARG:CZ	2.41	0.49
1:I:502:ARG:NH2	1:I:503:HIS:O	2.30	0.49
1:I:988:ASP:HA	1:I:1030:GLN:O	2.13	0.49
1:I:1136:LYS:HZ3	1:I:1189:ALA:HA	1.78	0.49
1:K:134:LEU:O	1:K:138:LEU:HG	2.12	0.49
1:K:321:PRO:HB2	1:K:322:ARG:HH11	1.76	0.49
1:K:503:HIS:HA	1:K:516:ASN:HD21	1.73	0.49
1:K:717:PHE:HA	1:K:727:GLU:HG2	1.94	0.49
1:K:1067:ASN:ND2	1:K:1091:GLN:CB	2.75	0.49
1:H:147:VAL:HG22	1:H:281:THR:HB	1.93	0.49
1:H:329:GLU:CD	1:H:332:ARG:HH21	2.15	0.49
1:H:385:LEU:HD11	1:H:467:PHE:CE1	2.47	0.49
1:H:946:ARG:CZ	1:H:964:CYS:SG	3.01	0.49
1:H:1191:ILE:O	1:H:1191:ILE:HG22	2.12	0.49
1:J:113:LEU:HD11	1:J:162:LEU:HB3	1.93	0.49
1:J:155:SER:HA	1:J:321:PRO:HD2	1.92	0.49
1:J:808:VAL:HG21	1:J:853:ALA:N	2.05	0.49
1:L:663:GLN:OE1	1:L:674:SER:CB	2.46	0.49
1:L:704:ARG:HH21	1:L:748:GLU:N	2.10	0.49
1:L:930:HIS:CE1	1:L:1234:HIS:HE2	2.23	0.49
1:M:488:ARG:HB2	1:M:494:PHE:HD2	1.78	0.49
1:M:940:SER:N	1:M:947:GLU:N	2.52	0.49
1:M:1053:PHE:CZ	1:M:1099:MET:HA	2.48	0.49
1:O:424:SER:O	1:O:427:LEU:N	2.46	0.49
1:O:661:ASN:ND2	1:O:676:LYS:O	2.45	0.49
1:O:823:SER:O	1:O:835:SER:HB2	2.12	0.49
1:O:987:VAL:N	1:O:997:LYS:O	2.45	0.49
1:Q:624:ALA:CB	1:Q:629:GLN:HB2	2.40	0.49
1:Q:644:LEU:HD22	1:Q:895:ARG:HH22	1.77	0.49
1:I:21:ASP:O	1:I:25:ASP:N	2.40	0.49
1:I:480:HIS:CG	1:I:481:PRO:HD3	2.47	0.49
1:K:708:SER:OG	1:K:713:LYS:O	2.30	0.49
1:K:979:ARG:HG2	1:K:985:LEU:HD22	1.93	0.49
1:K:1090:LEU:HG	1:K:1092:PRO:HD3	1.93	0.49
1:H:94:THR:O	1:H:98:GLN:N	2.45	0.49
1:H:127:ARG:HD2	1:H:296:GLU:HG3	1.94	0.49
1:H:476:LYS:HE2	1:H:529:CYS:SG	2.44	0.49
1:H:751:GLN:NE2	1:H:753:PHE:CE1	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:938:SER:HB3	1:H:954:ALA:CB	2.39	0.49
1:H:992:ARG:HH11	1:H:992:ARG:CG	2.26	0.49
1:H:1010:THR:OG1	1:H:1011:PRO:CD	2.61	0.49
1:J:45:ILE:HA	1:J:48:ILE:HD13	1.94	0.49
1:J:112:ARG:HH21	1:I:229:ARG:HH12	1.60	0.49
1:J:134:LEU:HD13	1:J:164:VAL:HG11	1.93	0.49
1:J:284:SER:O	1:J:290:MET:HG3	2.13	0.49
1:J:723:ALA:HA	1:J:744:LEU:HD12	1.93	0.49
1:J:863:THR:HA	1:J:885:TYR:CZ	2.47	0.49
1:J:1153:LEU:HD21	1:J:1165:VAL:HB	1.95	0.49
1:J:1193:TYR:O	1:J:1195:VAL:HG23	2.12	0.49
1:L:542:ILE:O	1:L:546:LEU:HG	2.12	0.49
1:L:625:LEU:CD1	1:L:667:ILE:O	2.58	0.49
1:M:449:ILE:CG2	1:M:450:PRO:HD3	2.41	0.49
1:M:1021:ASN:HB3	1:M:1050:PRO:HB3	1.94	0.49
1:Q:73:VAL:HA	1:Q:76:PHE:CD2	2.47	0.49
1:I:69:GLN:HE22	1:I:71:GLU:HB3	1.78	0.49
1:I:989:SER:N	1:I:993:ILE:HG21	2.27	0.49
1:K:825:THR:HG1	1:K:830:LEU:H	1.58	0.49
1:H:660:PHE:CE2	1:H:677:LEU:HG	2.47	0.49
1:H:1031:ILE:CB	1:H:1036:VAL:HB	2.39	0.49
1:H:1149:LEU:O	1:H:1150:LYS:HB2	2.12	0.49
1:J:183:LEU:O	1:J:248:GLN:NE2	2.44	0.49
1:L:414:GLN:NE2	1:L:419:THR:HG23	2.27	0.49
1:L:1234:HIS:N	1:L:1234:HIS:ND1	2.60	0.49
1:O:69:GLN:HE21	1:O:72:MET:HG3	1.77	0.49
1:O:148:LEU:HD13	1:O:280:THR:HB	1.95	0.49
1:O:681:TRP:HB2	1:O:695:GLN:HB2	1.94	0.49
1:O:1221:LYS:HD3	1:O:1224:LEU:HD11	1.95	0.49
2:N:70:GLU:HA	2:N:73:ARG:HH11	1.76	0.49
2:A:44:LEU:HD22	2:A:48:MET:HB3	1.95	0.49
2:F:94:LEU:HA	2:F:97:ILE:HB	1.93	0.49
2:G:91:ILE:HG23	2:G:95:ARG:NH1	2.27	0.49
1:Q:537:ARG:HG3	1:Q:538:LEU:N	2.28	0.49
1:Q:620:PHE:CZ	1:Q:661:ASN:N	2.80	0.49
1:Q:807:ASN:HB3	1:Q:809:GLU:OE2	2.12	0.49
1:Q:817:ASP:O	1:Q:819:PHE:N	2.45	0.49
1:Q:1144:ILE:HG22	1:Q:1145:VAL:H	1.77	0.49
1:Q:1185:ILE:HG22	1:Q:1194:LEU:O	2.12	0.49
1:I:128:LEU:O	1:I:132:LEU:HG	2.12	0.49
1:I:484:MET:HE3	1:I:531:ASN:CG	2.29	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:725:LEU:HD11	1:I:772:VAL:HG11	1.94	0.49
1:I:1153:LEU:HB2	1:I:1163:ILE:O	2.13	0.49
1:K:129:GLN:HB3	1:K:130:PRO:HD3	1.94	0.49
1:K:1021:ASN:HD21	1:K:1050:PRO:CG	2.24	0.49
1:K:1128:ILE:HD12	1:K:1148:ASP:HB2	1.94	0.49
1:H:115:ASN:OD1	1:O:279:THR:OG1	2.27	0.49
1:H:531:ASN:ND2	1:H:535:TYR:HB3	2.28	0.49
1:J:196:LEU:HG	1:J:221:ILE:HD11	1.94	0.49
1:J:620:PHE:CZ	1:J:662:GLN:CB	2.93	0.49
1:J:825:THR:O	1:J:832:PHE:CE2	2.65	0.49
1:J:946:ARG:CB	1:J:977:MET:SD	2.92	0.49
1:L:761:LEU:HD21	1:L:803:LEU:N	2.28	0.49
1:L:867:ARG:HA	1:L:875:LEU:H	1.76	0.49
1:L:964:CYS:H	1:L:981:ARG:HH11	1.60	0.49
1:M:319:THR:O	1:M:321:PRO:HD3	2.12	0.49
1:M:495:ARG:HH21	1:M:564:ILE:HD12	1.77	0.49
1:M:985:LEU:HB3	1:M:999:ALA:HB3	1.93	0.49
1:O:174:MET:HE3	1:O:240:CYS:HA	1.93	0.49
1:O:326:ILE:HD13	1:O:349:LEU:HG	1.95	0.49
1:O:858:GLU:OE2	1:O:885:TYR:HB3	2.13	0.49
1:Q:656:ARG:HG2	1:Q:656:ARG:NH1	2.27	0.49
1:Q:678:TRP:O	1:Q:696:GLN:OE1	2.31	0.49
1:Q:901:HIS:CE1	1:Q:903:GLU:HG2	2.47	0.49
1:I:499:GLN:HE22	1:I:500:LYS:HD3	1.76	0.49
1:I:822:ARG:HG2	1:I:834:TYR:CD1	2.48	0.49
1:I:1043:VAL:O	1:I:1045:HIS:N	2.46	0.49
1:I:1136:LYS:HB2	1:I:1143:TYR:HE1	1.78	0.49
1:K:824:LYS:HA	1:K:831:ILE:HA	1.95	0.49
1:H:480:HIS:HB3	1:H:530:ASP:C	2.33	0.49
1:H:614:VAL:HG23	1:H:633:THR:CG2	2.39	0.49
1:H:655:LEU:HD22	1:H:684:CYS:SG	2.52	0.49
1:H:771:PHE:CD2	1:H:776:LYS:O	2.65	0.49
1:H:1057:PRO:HA	1:H:1071:ALA:HA	1.94	0.49
1:J:195:MET:O	1:J:199:LEU:N	2.32	0.49
1:J:242:LEU:HB2	1:J:262:ILE:HG22	1.93	0.49
1:J:441:ARG:HA	1:J:444:VAL:HG12	1.95	0.49
1:J:453:PHE:HB3	1:J:462:TYR:CE1	2.46	0.49
1:L:623:ILE:HG12	1:L:630:ILE:HG12	1.95	0.49
1:L:672:ASN:ND2	1:L:684:CYS:SG	2.85	0.49
1:L:710:ALA:HB3	1:L:713:LYS:HB3	1.93	0.49
1:L:940:SER:N	1:L:946:ARG:HD2	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:330:SER:O	1:M:340:ASN:ND2	2.45	0.49
1:O:207:TRP:HZ2	1:O:211:SER:HG	1.61	0.49
1:O:656:ARG:HB3	1:O:657:MET:H	1.45	0.49
2:B:67:VAL:O	2:B:71:GLN:HG3	2.13	0.49
2:D:32:GLU:HG2	2:D:33:ARG:N	2.28	0.49
2:G:71:GLN:O	2:G:74:ARG:HB2	2.13	0.49
1:Q:181:LEU:HG	1:Q:242:LEU:HD11	1.93	0.49
1:Q:242:LEU:HB3	1:Q:262:ILE:HG22	1.93	0.49
1:Q:269:LYS:NZ	1:Q:411:VAL:O	2.46	0.49
1:Q:657:MET:O	1:Q:676:LYS:HB3	2.13	0.49
1:Q:808:VAL:HB	1:Q:851:SER:HA	1.95	0.49
1:Q:857:PRO:CD	1:Q:865:GLY:O	2.61	0.49
1:Q:989:SER:H	1:Q:992:ARG:HH11	1.59	0.49
1:I:369:PHE:O	1:I:372:LEU:HG	2.13	0.49
1:I:725:LEU:HD11	1:I:772:VAL:HG12	1.95	0.49
1:K:18:VAL:HG22	1:K:168:TYR:CE2	2.47	0.49
1:K:90:SER:O	1:K:93:LYS:HG2	2.13	0.49
1:K:643:TYR:HD2	1:K:645:LEU:O	1.96	0.49
1:K:834:TYR:H	1:K:872:ARG:NH1	2.11	0.49
1:H:649:SER:O	1:H:649:SER:OG	2.26	0.49
1:J:221:ILE:HA	1:J:224:ILE:HG22	1.95	0.49
1:J:656:ARG:NH2	1:J:674:SER:O	2.45	0.49
1:J:663:GLN:O	1:J:663:GLN:HG2	2.12	0.49
1:J:758:VAL:CG2	1:J:770:CYS:O	2.60	0.49
1:L:148:LEU:HD22	1:L:282:HIS:CD2	2.48	0.49
1:L:274:PHE:CD2	1:L:275:LEU:HD22	2.47	0.49
1:L:985:LEU:HD13	1:L:999:ALA:HB3	1.95	0.49
1:L:1059:ASP:OD2	1:L:1105:LYS:NZ	2.46	0.49
1:M:188:SER:OG	1:M:191:THR:HG23	2.12	0.49
1:M:524:TYR:OH	1:M:539:VAL:O	2.22	0.49
1:M:977:MET:SD	1:M:987:VAL:HG22	2.53	0.49
1:M:1083:GLN:HE21	1:M:1083:GLN:CA	2.18	0.49
1:O:460:PRO:HG2	1:O:462:TYR:CZ	2.48	0.49
1:O:882:LEU:HA	1:O:885:TYR:CZ	2.48	0.49
1:O:1220:ARG:HD2	1:O:1220:ARG:N	2.16	0.49
1:Q:294:PRO:O	1:Q:298:LYS:HG2	2.12	0.49
1:Q:656:ARG:HH11	1:Q:656:ARG:HG2	1.78	0.49
1:I:214:SER:HA	1:I:220:ARG:NH1	2.27	0.49
1:I:491:PHE:HA	1:I:576:GLU:HG2	1.94	0.49
1:I:822:ARG:NE	1:I:834:TYR:HE1	2.11	0.49
1:I:990:LYS:CG	1:I:1011:PRO:HG3	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1018:CYS:O	1:I:1029:GLU:HG3	2.12	0.49
1:K:752:GLU:OE1	1:K:757:HIS:HB2	2.13	0.49
1:K:1049:LEU:N	1:K:1061:LEU:CD1	2.76	0.49
1:H:131:TYR:HE1	1:H:160:VAL:HG12	1.78	0.49
1:H:152:VAL:HG23	1:H:155:SER:HB2	1.93	0.49
1:H:386:LEU:HD11	1:H:402:VAL:HG11	1.94	0.49
1:H:624:ALA:HB3	1:H:629:GLN:H	1.77	0.49
1:H:955:ASP:C	1:H:990:LYS:HG3	2.32	0.49
1:J:127:ARG:NH2	1:J:292:LEU:HD12	2.28	0.49
1:J:502:ARG:HE	1:J:503:HIS:N	2.11	0.49
1:J:867:ARG:HE	1:J:874:LEU:HG	1.77	0.49
1:L:86:LYS:HA	1:L:89:MET:HE1	1.94	0.49
1:L:135:ARG:HA	1:L:138:LEU:HD12	1.95	0.49
1:L:806:PHE:CD2	1:L:810:ASN:HB3	2.48	0.49
1:L:1024:SER:HB3	1:L:1026:PHE:HE2	1.67	0.49
1:L:1049:LEU:HB2	1:L:1061:LEU:HD12	1.94	0.49
1:L:1098:LEU:HB3	1:L:1101:ASP:HB3	1.94	0.49
1:M:115:ASN:OD1	1:M:118:GLN:NE2	2.46	0.49
1:M:167:SER:HB3	1:M:170:VAL:HG23	1.95	0.49
1:O:610:GLY:HA2	1:O:906:ASP:O	2.13	0.49
1:O:771:PHE:HB2	1:O:775:LEU:N	2.26	0.49
2:N:104:VAL:HA	2:N:107:GLU:HG2	1.95	0.49
2:A:17:HIS:CE1	2:A:106:LEU:HD12	2.47	0.49
2:B:52:THR:HG22	2:B:75:LEU:HD22	1.94	0.49
1:Q:30:LYS:NZ	1:Q:48:ILE:HB	2.28	0.49
1:Q:150:ASP:N	1:Q:283:ILE:O	2.41	0.49
1:Q:443:ILE:HG13	1:Q:478:ILE:HG23	1.94	0.49
1:Q:621:CYS:SG	1:Q:888:LYS:HG3	2.53	0.49
1:I:41:SER:HB3	1:I:44:GLU:HG3	1.95	0.49
1:I:57:GLY:HA2	1:I:60:ARG:CZ	2.42	0.49
1:I:199:LEU:HD13	1:I:202:GLN:NE2	2.24	0.49
1:I:229:ARG:O	1:I:233:LYS:HG2	2.13	0.49
1:I:410:LEU:HD12	1:I:411:VAL:HB	1.95	0.49
1:I:522:LYS:O	1:I:526:PRO:HG3	2.13	0.49
1:I:1192:SER:HB2	1:I:1230:GLU:OE2	2.13	0.49
1:K:1216:ALA:HB2	1:K:1221:LYS:HE3	1.94	0.49
1:H:320:ASN:HD21	1:H:322:ARG:HB2	1.77	0.48
1:H:841:PHE:CE1	1:H:843:PRO:HB3	2.42	0.48
1:J:120:PHE:HD1	1:J:159:TRP:CE3	2.31	0.48
1:J:180:TRP:HA	1:J:243:VAL:HG12	1.95	0.48
1:J:234:SER:HB2	1:J:237:TYR:CD2	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:188:SER:HB3	1:L:191:THR:HG23	1.95	0.48
1:L:1149:LEU:HD21	1:L:1167:ARG:HH21	1.77	0.48
1:M:517:THR:HA	1:M:520:GLN:OE1	2.13	0.48
1:O:825:THR:OG1	1:O:830:LEU:O	2.22	0.48
1:O:845:LEU:CB	1:O:858:GLU:HB3	2.42	0.48
1:O:985:LEU:HD22	1:O:1020:ILE:HD13	1.95	0.48
2:A:54:ASP:O	2:A:74:ARG:NH1	2.46	0.48
2:C:37:GLU:O	2:C:41:GLN:N	2.46	0.48
1:Q:806:PHE:CE1	1:Q:813:PRO:HG3	2.48	0.48
1:Q:891:ASP:HB2	1:Q:911:PHE:CZ	2.48	0.48
1:I:1019:LYS:HZ3	1:I:1052:GLN:CG	2.26	0.48
1:K:48:ILE:HG13	1:K:60:ARG:HG3	1.94	0.48
1:K:156:GLY:HA2	1:K:322:ARG:HH12	1.79	0.48
1:K:158:THR:HG22	1:K:245:LEU:HD11	1.95	0.48
1:K:197:GLN:HG3	1:K:201:TYR:CE2	2.47	0.48
1:K:299:SER:O	1:K:302:LEU:HG	2.13	0.48
1:K:687:ARG:O	1:K:689:HIS:NE2	2.46	0.48
1:J:174:MET:CE	1:J:241:LEU:H	2.24	0.48
1:J:414:GLN:OE1	1:J:414:GLN:N	2.46	0.48
1:J:727:GLU:HB2	1:J:739:GLY:HA3	1.95	0.48
1:J:989:SER:HB2	1:J:1018:CYS:HB3	1.94	0.48
1:L:386:LEU:HA	1:L:389:ILE:HG22	1.94	0.48
1:L:665:HIS:HE1	1:L:670:HIS:N	2.11	0.48
1:M:227:GLU:O	1:M:230:ARG:HG2	2.13	0.48
1:M:381:ILE:O	1:M:420:ILE:N	2.46	0.48
1:M:866:LYS:O	1:M:875:LEU:HB2	2.13	0.48
2:N:13:ARG:O	2:N:16:GLU:HG3	2.12	0.48
2:D:61:ASN:OD1	2:D:62:MET:N	2.46	0.48
2:E:84:PRO:HA	1:I:87:PHE:CE1	2.47	0.48
1:Q:496:PHE:HB2	1:Q:561:LEU:HD22	1.94	0.48
1:Q:761:LEU:HB2	1:Q:804:HIS:NE2	2.29	0.48
1:Q:824:LYS:HZ3	1:Q:831:ILE:CD1	2.22	0.48
1:Q:911:PHE:O	1:Q:914:VAL:HG13	2.12	0.48
1:Q:936:SER:HB3	1:Q:950:TRP:CH2	2.48	0.48
1:I:1032:PHE:CD2	1:I:1032:PHE:C	2.86	0.48
1:I:1112:GLY:HA3	1:I:1120:ASP:N	2.28	0.48
1:I:1136:LYS:HB3	1:I:1141:GLU:HB2	1.95	0.48
1:I:1136:LYS:N	1:I:1141:GLU:O	2.44	0.48
1:K:268:PHE:HB2	1:K:271:VAL:HG23	1.95	0.48
1:K:339:ASP:HA	1:K:343:HIS:ND1	2.28	0.48
1:K:785:ASN:HB3	1:K:822:ARG:HE	1.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:926:LYS:HD3	1:K:1225:ILE:HD12	1.95	0.48
1:K:1039:VAL:HG12	1:K:1041:ILE:CD1	2.42	0.48
1:H:989:SER:HB3	1:H:994:HIS:CA	2.36	0.48
1:J:354:GLU:CD	1:J:358:ASN:HD21	2.15	0.48
1:J:1133:ALA:HB2	1:J:1144:ILE:HG23	1.95	0.48
1:L:889:ILE:HG13	1:L:898:VAL:HG21	1.95	0.48
1:M:127:ARG:HD3	1:M:130:PRO:HD2	1.94	0.48
1:M:250:ALA:H	1:M:270:GLN:NE2	2.06	0.48
1:M:542:ILE:O	1:M:546:LEU:HG	2.13	0.48
1:O:912:ASP:HB2	1:O:913:PRO:HD3	1.95	0.48
2:F:24:ILE:O	2:F:28:TRP:HE3	1.94	0.48
1:Q:192:VAL:O	1:Q:196:LEU:HD23	2.13	0.48
1:Q:372:LEU:HD11	1:Q:422:ILE:HG12	1.95	0.48
1:Q:620:PHE:HZ	1:Q:661:ASN:N	2.11	0.48
1:Q:628:GLY:N	1:Q:644:LEU:CD1	2.76	0.48
1:I:379:ALA:HB1	1:I:470:HIS:CE1	2.49	0.48
1:K:130:PRO:HA	1:K:133:LYS:HG2	1.94	0.48
1:K:247:VAL:HG21	1:K:264:LEU:HD23	1.95	0.48
1:K:812:THR:HA	1:K:824:LYS:O	2.13	0.48
1:K:929:VAL:CG1	1:K:971:LEU:HD23	2.42	0.48
1:H:148:LEU:HD11	1:H:266:THR:H	1.78	0.48
1:H:153:LEU:HD22	1:H:267:ARG:HG3	1.95	0.48
1:H:470:HIS:O	1:H:474:HIS:ND1	2.46	0.48
1:H:637:LEU:O	1:H:637:LEU:HD13	2.12	0.48
1:H:660:PHE:HB3	1:H:676:LYS:CB	2.34	0.48
1:H:975:MET:HG3	1:H:992:ARG:HB3	1.95	0.48
1:H:1141:GLU:HA	1:H:1154:LEU:O	2.14	0.48
1:H:1218:GLU:HB3	1:H:1238:GLN:OE1	2.13	0.48
1:J:20:GLU:HG3	1:J:62:PHE:CE2	2.48	0.48
1:J:85:TYR:CZ	1:J:87:PHE:HB3	2.48	0.48
1:J:131:TYR:CE1	1:J:135:ARG:HD2	2.48	0.48
1:J:1024:SER:C	1:J:1026:PHE:H	2.16	0.48
1:J:1066:PRO:HG3	1:J:1082:PHE:CD2	2.48	0.48
1:L:522:LYS:HA	1:L:525:LYS:NZ	2.28	0.48
1:L:916:LYS:HE3	1:L:917:TYR:CE2	2.48	0.48
1:L:1236:ILE:HB	1:L:1241:PHE:CD2	2.49	0.48
1:M:516:ASN:HD21	1:M:612:HIS:CD2	2.30	0.48
1:M:950:TRP:HB2	1:M:955:ASP:HB2	1.96	0.48
1:O:92:ILE:HA	1:O:95:GLU:HG2	1.96	0.48
1:O:117:ASN:ND2	1:O:120:PHE:HB3	2.28	0.48
1:O:148:LEU:HD22	1:O:282:HIS:CD2	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:241:LEU:HD13	1:O:261:LYS:O	2.13	0.48
1:O:406:HIS:HD1	1:O:412:GLU:HA	1.77	0.48
1:O:1094:ASP:HA	1:O:1135:VAL:HG21	1.95	0.48
2:A:13:ARG:O	2:A:16:GLU:HG2	2.14	0.48
2:G:46:VAL:O	1:Q:32:VAL:HG22	2.13	0.48
1:Q:35:MET:HE1	1:Q:40:LEU:HB3	1.95	0.48
1:Q:65:LEU:HD11	1:Q:73:VAL:HG22	1.94	0.48
1:Q:203:ILE:HG21	1:Q:231:LEU:HD13	1.96	0.48
1:Q:639:GLY:CA	1:Q:653:ASP:O	2.61	0.48
1:Q:727:GLU:HB2	1:Q:737:ILE:HB	1.95	0.48
1:Q:825:THR:OG1	1:Q:830:LEU:CD1	2.61	0.48
1:Q:1053:PHE:CE2	1:Q:1071:ALA:HA	2.48	0.48
1:I:22:ALA:O	1:I:25:ASP:HB3	2.13	0.48
1:I:130:PRO:O	1:I:134:LEU:HG	2.12	0.48
1:I:684:CYS:HB3	1:I:685:PRO:CD	2.43	0.48
1:K:197:GLN:OE1	1:K:200:LEU:HD23	2.14	0.48
1:K:525:LYS:CG	1:K:526:PRO:HD3	2.43	0.48
1:K:844:GLY:C	1:K:845:LEU:HD12	2.33	0.48
1:H:483:ARG:O	1:H:487:PHE:HB2	2.14	0.48
1:H:1102:VAL:HG22	1:H:1111:GLU:HG2	1.96	0.48
1:H:1110:GLN:HG2	1:H:1122:GLY:HA2	1.94	0.48
1:J:350:THR:HA	1:J:353:ILE:HG22	1.95	0.48
1:J:834:TYR:O	1:J:836:VAL:HG23	2.13	0.48
1:J:851:SER:HB2	1:J:894:LEU:HD22	1.94	0.48
1:J:910:LEU:HB3	1:J:913:PRO:HG2	1.95	0.48
1:J:1025:ALA:HB2	1:J:1047:THR:HG23	1.96	0.48
1:J:1052:GLN:C	1:J:1060:TYR:CZ	2.86	0.48
1:L:132:LEU:HA	1:L:135:ARG:HH12	1.78	0.48
1:L:716:ALA:HB3	1:L:718:TYR:CZ	2.48	0.48
1:M:30:LYS:H	1:M:30:LYS:HD2	1.78	0.48
1:M:119:VAL:HA	1:M:122:LYS:HZ3	1.78	0.48
1:M:131:TYR:CE1	1:M:164:VAL:HA	2.48	0.48
1:O:132:LEU:HA	1:O:135:ARG:HG2	1.95	0.48
2:D:91:ILE:O	2:D:95:ARG:HD3	2.14	0.48
1:Q:20:GLU:HA	1:Q:62:PHE:HE2	1.77	0.48
1:Q:986:ALA:HA	1:Q:998:PRO:HA	1.95	0.48
1:I:373:SER:OG	1:I:435:ASN:ND2	2.46	0.48
1:I:774:VAL:O	1:I:774:VAL:HG12	2.14	0.48
1:I:912:ASP:HA	1:I:915:TYR:CE2	2.48	0.48
1:K:372:LEU:HA	1:K:375:PHE:HE2	1.79	0.48
1:K:533:PRO:HA	1:K:536:GLU:HB2	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1010:THR:OG1	1:K:1011:PRO:HD3	2.13	0.48
1:H:854:VAL:CG1	1:H:867:ARG:O	2.53	0.48
1:H:854:VAL:HG13	1:H:869:THR:H	1.78	0.48
1:H:956:GLU:OE2	1:H:990:LYS:HB2	2.13	0.48
1:J:33:GLN:HE22	2:D:47:GLN:HE21	1.61	0.48
1:J:771:PHE:HB2	1:J:776:LYS:H	1.79	0.48
1:J:1233:GLU:O	1:J:1246:LEU:HB2	2.14	0.48
1:L:246:ASN:H	1:L:265:THR:HG23	1.79	0.48
1:L:440:HIS:HA	1:L:443:ILE:HG22	1.95	0.48
1:L:868:SER:OG	1:L:873:TYR:HB2	2.13	0.48
1:L:1008:THR:N	1:L:1021:ASN:HD21	2.07	0.48
1:M:52:LYS:NZ	1:M:60:ARG:HB3	2.29	0.48
1:M:175:ASP:OD2	1:M:239:ASN:ND2	2.44	0.48
1:M:365:TYR:OH	1:M:404:LYS:HD3	2.13	0.48
1:O:85:TYR:CG	1:O:88:LEU:HD22	2.48	0.48
1:O:93:LYS:HA	1:O:96:GLN:NE2	2.28	0.48
1:O:659:VAL:O	1:O:677:LEU:N	2.46	0.48
1:O:752:GLU:OE1	1:O:757:HIS:ND1	2.43	0.48
1:O:1236:ILE:HG23	1:O:1240:LEU:HA	1.94	0.48
2:N:74:ARG:HA	2:N:77:LEU:HD12	1.96	0.48
2:A:16:GLU:HA	2:A:19:ARG:CD	2.43	0.48
2:A:59:PRO:HA	2:A:62:MET:HE2	1.95	0.48
2:D:47:GLN:HE22	2:D:51:ASN:HD22	1.61	0.48
1:Q:464:ASP:HA	1:Q:468:TYR:CD1	2.49	0.48
1:Q:469:SER:HA	1:Q:523:PHE:CZ	2.48	0.48
1:Q:615:TYR:HB2	1:Q:636:SER:OG	2.14	0.48
1:Q:634:ASP:O	1:Q:658:ALA:HB1	2.14	0.48
1:I:208:THR:HB	1:I:210:ARG:HH21	1.77	0.48
1:I:528:ILE:O	1:I:531:ASN:HB2	2.13	0.48
1:K:448:ASN:O	1:K:452:THR:HG23	2.14	0.48
1:H:115:ASN:HD21	1:O:144:ALA:HB1	1.78	0.48
1:H:664:LYS:HE2	1:H:718:TYR:HE2	1.79	0.48
1:H:956:GLU:CD	1:H:956:GLU:H	2.17	0.48
1:J:33:GLN:HG2	1:J:33:GLN:O	2.13	0.48
1:J:153:LEU:HD22	1:J:267:ARG:HD2	1.94	0.48
1:J:349:LEU:HB3	1:J:429:LEU:HD11	1.96	0.48
1:J:785:ASN:HB2	1:J:818:VAL:HB	1.96	0.48
1:J:918:ILE:HG22	1:J:920:LEU:H	1.79	0.48
1:J:1131:PRO:HD2	1:J:1145:VAL:O	2.14	0.48
1:L:350:THR:HG22	1:L:429:LEU:HB2	1.94	0.48
1:L:978:THR:O	1:L:985:LEU:HA	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:35:MET:SD	1:M:40:LEU:HD22	2.53	0.48
1:M:874:LEU:O	1:M:876:LEU:N	2.47	0.48
1:M:1111:GLU:O	1:M:1120:ASP:N	2.47	0.48
1:O:481:PRO:CA	1:O:484:MET:CE	2.78	0.48
1:O:927:GLN:CD	1:O:968:ASN:HA	2.33	0.48
1:O:1007:SER:O	1:O:1007:SER:OG	2.22	0.48
1:O:1232:HIS:HB3	1:O:1245:LYS:HB3	1.96	0.48
2:C:14:HIS:HB3	2:C:87:TYR:CE2	2.48	0.48
1:Q:445:ASP:O	1:Q:449:ILE:HG22	2.13	0.48
1:Q:621:CYS:HB3	1:Q:900:GLU:N	2.27	0.48
1:Q:675:VAL:CB	1:Q:681:TRP:HB2	2.41	0.48
1:I:486:LEU:HD13	1:I:488:ARG:CZ	2.44	0.48
1:K:609:GLU:HG3	1:K:908:TYR:HB3	1.95	0.48
1:K:666:LEU:HD11	1:K:730:ILE:HG21	1.96	0.48
1:K:929:VAL:HG13	1:K:971:LEU:CD2	2.44	0.48
1:K:1048:ALA:HB3	1:K:1061:LEU:HD13	1.94	0.48
1:H:822:ARG:HG3	1:H:836:VAL:C	2.34	0.48
1:H:977:MET:CE	1:H:1018:CYS:SG	3.01	0.48
1:H:1092:PRO:HG2	1:H:1135:VAL:HG13	1.95	0.48
1:J:107:ILE:O	1:J:110:ARG:HG3	2.13	0.48
1:J:111:ASP:OD2	1:I:142:ARG:NH2	2.43	0.48
1:J:737:ILE:HG23	1:J:737:ILE:O	2.13	0.48
1:J:1052:GLN:C	1:J:1060:TYR:OH	2.52	0.48
1:L:253:TRP:O	1:L:256:PHE:N	2.46	0.48
1:L:354:GLU:N	1:L:430:LYS:HZ1	2.12	0.48
1:L:380:HIS:HD2	1:L:465:GLN:NE2	2.11	0.48
1:L:401:VAL:HA	1:L:404:LYS:HE2	1.95	0.48
1:L:730:ILE:O	1:L:732:LEU:N	2.47	0.48
1:M:447:TYR:HB2	1:M:478:ILE:HD13	1.95	0.48
1:M:1233:GLU:N	1:M:1246:LEU:HD23	2.28	0.48
1:O:34:ASP:OD2	1:O:80:VAL:HG13	2.14	0.48
1:O:109:GLN:O	1:O:113:LEU:HG	2.14	0.48
2:N:39:VAL:HG21	2:N:49:LEU:HD23	1.96	0.48
2:D:70:GLU:HA	2:D:73:ARG:HG2	1.95	0.48
1:Q:447:TYR:O	1:Q:450:PRO:HD2	2.13	0.48
1:Q:808:VAL:CG2	1:Q:851:SER:HA	2.44	0.48
1:Q:1186:ALA:HA	1:Q:1193:TYR:CD2	2.49	0.48
1:I:674:SER:O	1:I:681:TRP:HA	2.13	0.48
1:I:752:GLU:HG3	1:I:759:PRO:HD3	1.96	0.48
1:I:756:SER:HB2	1:I:771:PHE:HB3	1.95	0.48
1:K:293:THR:HG22	1:K:296:GLU:HG2	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:323:ARG:HA	1:K:326:ILE:HG22	1.95	0.48
1:K:405:LEU:HB3	1:K:410:LEU:HB2	1.95	0.48
1:K:702:VAL:HA	1:K:720:ASN:HA	1.95	0.48
1:K:845:LEU:O	1:K:858:GLU:HB2	2.14	0.48
1:H:193:LEU:HB2	1:H:221:ILE:HD11	1.96	0.48
1:J:51:SER:HB3	1:J:60:ARG:NH2	2.28	0.48
1:J:90:SER:OG	1:J:91:PRO:HD3	2.13	0.48
1:J:106:TYR:CE2	1:J:171:GLN:CD	2.87	0.48
1:L:845:LEU:H	1:L:858:GLU:HB2	1.78	0.48
1:L:1013:HIS:CE1	1:L:1056:GLU:CA	2.97	0.48
1:M:18:VAL:HG13	1:M:168:TYR:CE2	2.49	0.48
1:M:235:LYS:O	1:M:238:GLU:HG2	2.13	0.48
1:M:463:LEU:HD21	1:M:465:GLN:NE2	2.23	0.48
1:M:682:PRO:CA	1:M:693:SER:HA	2.44	0.48
1:M:1104:THR:N	1:M:1109:LEU:HD13	2.29	0.48
1:Q:937:VAL:HG11	1:Q:1234:HIS:CE1	2.49	0.48
1:Q:1031:ILE:HD12	1:Q:1036:VAL:HB	1.96	0.48
1:Q:1184:GLU:HG3	1:Q:1195:VAL:HG13	1.96	0.48
1:I:77:VAL:O	1:I:89:MET:HG2	2.13	0.48
1:I:269:LYS:NZ	1:I:411:VAL:O	2.46	0.48
1:I:714:ILE:CG2	1:I:730:ILE:H	2.27	0.48
1:I:921:CYS:HB2	1:I:1242:SER:HB3	1.96	0.48
1:I:1225:ILE:HD11	1:I:1236:ILE:HD11	1.95	0.48
1:K:247:VAL:HB	1:K:271:VAL:HG11	1.95	0.48
1:K:980:GLU:N	1:K:984:LEU:O	2.36	0.48
1:H:621:CYS:HB3	1:H:900:GLU:OE1	2.11	0.48
1:H:621:CYS:SG	1:H:632:LEU:HD22	2.54	0.48
1:J:112:ARG:NH2	1:I:259:SER:HB3	2.29	0.48
1:J:542:ILE:O	1:J:546:LEU:HG	2.14	0.48
1:L:978:THR:CG2	1:L:987:VAL:N	2.72	0.48
1:M:117:ASN:O	1:M:119:VAL:N	2.46	0.48
1:M:706:ILE:HG13	1:M:717:PHE:HB2	1.94	0.48
1:M:930:HIS:CE1	1:M:1225:ILE:HD12	2.49	0.48
1:M:1029:GLU:OE2	1:M:1040:ILE:HD11	2.14	0.48
1:M:1048:ALA:HB3	1:M:1061:LEU:O	2.14	0.48
1:M:1104:THR:HA	1:M:1109:LEU:HD13	1.96	0.48
1:O:174:MET:CE	1:O:241:LEU:H	2.26	0.48
1:O:468:TYR:HE1	1:O:497:LEU:HB3	1.79	0.48
1:O:617:HIS:O	1:O:634:ASP:HB3	2.13	0.48
1:O:1040:ILE:HG21	1:O:1070:VAL:HG21	1.95	0.48
1:O:1067:ASN:HB3	1:O:1091:GLN:HE22	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:24:ILE:HA	2:A:28:TRP:CZ3	2.48	0.48
2:B:37:GLU:O	2:B:41:GLN:HG2	2.14	0.48
2:C:25:LEU:HD11	2:C:102:ALA:HB1	1.96	0.48
1:Q:353:ILE:HD11	1:Q:425:ILE:HG22	1.96	0.48
1:Q:781:VAL:HG21	1:Q:824:LYS:HE3	1.96	0.48
1:I:39:ILE:HD12	1:I:72:MET:HG3	1.96	0.48
1:I:980:GLU:HB2	1:I:984:LEU:N	2.29	0.48
1:K:20:GLU:HA	1:K:23:PHE:CD2	2.42	0.48
1:K:488:ARG:HG2	1:K:494:PHE:CD1	2.49	0.48
1:K:747:ASP:HB2	1:K:762:LYS:HA	1.96	0.48
1:H:484:MET:HE1	1:H:490:VAL:CG2	2.44	0.47
1:H:676:LYS:N	1:H:676:LYS:CD	2.73	0.47
1:H:856:LEU:HB3	1:H:858:GLU:HG3	1.95	0.47
1:J:76:PHE:O	1:J:80:VAL:HB	2.14	0.47
1:J:106:TYR:HD2	1:J:176:PHE:CZ	2.30	0.47
1:J:131:TYR:CD1	1:J:135:ARG:HD2	2.49	0.47
1:J:1052:GLN:OE1	1:J:1052:GLN:N	2.47	0.47
1:L:14:ASP:N	1:L:14:ASP:OD1	2.46	0.47
1:M:716:ALA:O	1:M:727:GLU:HA	2.12	0.47
1:M:732:LEU:HD22	1:M:736:PHE:CZ	2.48	0.47
1:M:1027:ASN:HB3	1:M:1040:ILE:HD12	1.96	0.47
1:M:1231:VAL:O	1:M:1231:VAL:HG12	2.14	0.47
1:O:268:PHE:O	1:O:272:THR:HG23	2.14	0.47
1:O:376:PRO:HG2	1:O:470:HIS:CD2	2.49	0.47
1:O:640:GLU:HG2	1:O:652:SER:HB2	1.95	0.47
1:Q:301:LEU:O	1:Q:306:ASP:N	2.47	0.47
1:Q:488:ARG:HG3	1:Q:491:PHE:CD2	2.42	0.47
1:Q:1085:GLU:O	1:Q:1108:SER:N	2.47	0.47
1:I:728:ALA:HA	1:I:736:PHE:CD1	2.49	0.47
1:I:980:GLU:CG	1:I:984:LEU:HB2	2.44	0.47
1:I:1102:VAL:HG11	1:I:1109:LEU:HD22	1.95	0.47
1:I:1216:ALA:HB1	1:I:1237:ARG:NE	2.29	0.47
1:K:480:HIS:CG	1:K:481:PRO:HD3	2.48	0.47
1:K:783:THR:O	1:K:822:ARG:NH2	2.47	0.47
1:H:719:LEU:HD21	1:H:751:GLN:CB	2.44	0.47
1:H:750:ASP:HB3	1:H:759:PRO:HD2	1.95	0.47
1:H:785:ASN:CG	1:H:836:VAL:HG21	2.35	0.47
1:H:979:ARG:HH21	1:H:1008:THR:HG22	1.79	0.47
1:J:498:GLU:O	1:J:501:ILE:HG22	2.14	0.47
1:J:660:PHE:CE1	1:J:676:LYS:HE2	2.48	0.47
1:L:379:ALA:HB1	1:L:470:HIS:CE1	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:719:LEU:HD13	1:L:749:GLN:HB3	1.96	0.47
1:L:940:SER:O	1:L:940:SER:OG	2.24	0.47
1:M:468:TYR:CE2	1:M:501:ILE:HD13	2.49	0.47
1:M:935:ARG:NE	1:M:1234:HIS:HE1	2.11	0.47
1:M:1098:LEU:O	1:M:1099:MET:HE2	2.13	0.47
1:O:406:HIS:ND1	1:O:411:VAL:O	2.43	0.47
1:O:757:HIS:HA	1:O:778:TYR:HE2	1.79	0.47
1:O:845:LEU:HB3	1:O:858:GLU:O	2.14	0.47
2:G:58:LYS:HZ1	1:Q:656:ARG:HG3	1.78	0.47
1:Q:270:GLN:N	1:Q:407:LYS:O	2.47	0.47
1:Q:841:PHE:HB2	1:Q:863:THR:HG21	1.95	0.47
1:I:229:ARG:CZ	1:I:258:LEU:HD13	2.44	0.47
1:I:1052:GLN:C	1:I:1058:ILE:HA	2.34	0.47
1:K:329:GLU:O	1:K:333:ASP:N	2.47	0.47
1:K:656:ARG:NE	1:K:682:PRO:HG3	2.30	0.47
1:H:476:LYS:HG3	1:H:527:TYR:CD1	2.50	0.47
1:H:717:PHE:CG	1:H:753:PHE:HB2	2.49	0.47
1:H:759:PRO:HA	1:H:769:ARG:HG2	1.95	0.47
1:H:926:LYS:HE3	1:H:937:VAL:CG1	2.44	0.47
1:H:1000:ILE:CA	1:H:1020:ILE:CD1	2.86	0.47
1:H:1008:THR:HG23	1:H:1021:ASN:HB3	1.96	0.47
1:J:361:GLU:OE1	1:J:363:ALA:N	2.48	0.47
1:J:464:ASP:O	1:J:468:TYR:HB2	2.15	0.47
1:J:532:ASP:OD1	1:J:535:TYR:CB	2.57	0.47
1:J:721:GLU:HA	1:J:744:LEU:HD21	1.96	0.47
1:J:726:PRO:O	1:J:728:ALA:N	2.47	0.47
1:L:352:ILE:O	1:L:355:SER:OG	2.31	0.47
1:L:360:LEU:HD23	1:L:360:LEU:H	1.78	0.47
1:L:375:PHE:HE2	1:L:381:ILE:HD12	1.79	0.47
1:L:486:LEU:HA	1:L:488:ARG:NH1	2.29	0.47
1:L:1124:CYS:HB3	1:L:1127:ASP:HB2	1.95	0.47
1:M:26:ASN:OD1	1:M:27:PHE:N	2.47	0.47
1:M:279:THR:HG22	1:O:114:TYR:HB3	1.96	0.47
1:O:837:TRP:HH2	1:O:845:LEU:O	1.96	0.47
2:A:24:ILE:HA	2:A:28:TRP:CE3	2.49	0.47
1:Q:136:GLN:OE1	1:Q:136:GLN:N	2.40	0.47
1:Q:620:PHE:HE1	1:Q:661:ASN:O	1.96	0.47
1:Q:732:LEU:HD22	1:Q:736:PHE:CZ	2.49	0.47
1:Q:821:GLU:HG3	1:Q:821:GLU:O	2.14	0.47
1:I:437:TYR:OH	1:I:440:HIS:HB2	2.14	0.47
1:I:488:ARG:HG3	1:I:491:PHE:HB2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:812:THR:HG22	1:I:832:PHE:CE2	2.49	0.47
1:K:27:PHE:HB2	1:K:88:LEU:HD21	1.96	0.47
1:K:145:LYS:HZ3	1:K:281:THR:H	1.62	0.47
1:K:579:LYS:HE2	1:K:580:GLN:OE1	2.14	0.47
1:K:717:PHE:HB3	1:K:751:GLN:CD	2.35	0.47
1:K:924:LYS:NZ	1:K:1222:VAL:HG11	2.28	0.47
1:H:229:ARG:CZ	1:H:258:LEU:HA	2.45	0.47
1:H:488:ARG:HB2	1:H:494:PHE:HB2	1.95	0.47
1:H:822:ARG:HG2	1:H:835:SER:HA	1.96	0.47
1:H:1060:TYR:HE2	1:H:1070:VAL:HB	1.79	0.47
1:J:171:GLN:O	1:J:174:MET:HB3	2.14	0.47
1:J:658:ALA:HB3	1:J:676:LYS:CG	2.45	0.47
1:J:661:ASN:ND2	1:J:676:LYS:O	2.47	0.47
1:J:745:ASN:N	1:J:745:ASN:HD22	2.11	0.47
1:J:949:ALA:HA	1:J:956:GLU:HA	1.96	0.47
1:J:1199:ASP:HB2	1:J:1215:PHE:HD2	1.80	0.47
1:L:177:LYS:HB2	1:L:179:PHE:CZ	2.49	0.47
1:L:179:PHE:HE2	1:L:240:CYS:HB2	1.79	0.47
1:L:260:CYS:HB3	1:L:262:ILE:HG23	1.95	0.47
1:L:443:ILE:HG13	1:L:478:ILE:CG2	2.44	0.47
1:M:227:GLU:HA	1:M:230:ARG:CZ	2.44	0.47
1:M:488:ARG:HB2	1:M:494:PHE:CD2	2.49	0.47
1:M:625:LEU:HD11	1:M:665:HIS:CE1	2.50	0.47
1:M:633:THR:HB	1:M:660:PHE:CD2	2.45	0.47
1:O:219:LEU:HA	1:O:222:HIS:CD2	2.49	0.47
2:A:51:ASN:OD1	2:A:52:THR:N	2.47	0.47
2:D:58:LYS:O	2:D:60:PHE:N	2.47	0.47
2:G:17:HIS:CD2	2:G:106:LEU:HD12	2.50	0.47
1:Q:369:PHE:CZ	1:Q:426:TYR:HB3	2.47	0.47
1:Q:675:VAL:HB	1:Q:681:TRP:CB	2.44	0.47
1:I:229:ARG:NH2	1:I:258:LEU:HA	2.29	0.47
1:I:849:LEU:HG	1:I:857:PRO:HD3	1.94	0.47
1:I:989:SER:H	1:I:993:ILE:HG21	1.79	0.47
1:I:1019:LYS:NZ	1:I:1052:GLN:CG	2.78	0.47
1:I:1019:LYS:NZ	1:I:1052:GLN:HG3	2.29	0.47
1:I:1147:PHE:HA	1:I:1180:ILE:HG23	1.95	0.47
1:K:246:ASN:H	1:K:265:THR:HG23	1.79	0.47
1:H:106:TYR:HA	1:H:176:PHE:CE2	2.49	0.47
1:H:926:LYS:HA	1:H:938:SER:O	2.13	0.47
1:H:1031:ILE:HG13	1:H:1036:VAL:CB	2.45	0.47
1:J:26:ASN:ND2	1:J:85:TYR:OH	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:44:GLU:O	1:J:48:ILE:HD12	2.15	0.47
1:J:371:ARG:HB3	1:J:389:ILE:HD11	1.97	0.47
1:J:463:LEU:HD13	1:J:467:PHE:CE1	2.49	0.47
1:J:727:GLU:OE1	1:J:739:GLY:HA3	2.14	0.47
1:J:762:LYS:CG	1:J:764:MET:SD	2.99	0.47
1:L:320:ASN:H	1:L:323:ARG:HD3	1.79	0.47
1:L:531:ASN:N	1:L:531:ASN:HD22	2.11	0.47
1:L:727:GLU:O	1:L:736:PHE:N	2.23	0.47
1:M:15:ILE:HG13	1:M:16:LEU:N	2.30	0.47
1:M:175:ASP:CG	1:M:239:ASN:HD21	2.18	0.47
1:M:936:SER:HB3	1:M:948:ILE:CG2	2.44	0.47
1:O:82:ARG:HE	1:O:89:MET:HE3	1.79	0.47
1:O:345:ASN:OD1	1:O:348:LYS:CB	2.55	0.47
2:A:13:ARG:NH1	2:A:110:ASP:OD1	2.47	0.47
2:B:43:ILE:HG22	2:B:44:LEU:HD12	1.96	0.47
2:F:26:VAL:HG23	2:F:72:HIS:HB3	1.97	0.47
1:Q:1013:HIS:HD2	1:Q:1057:PRO:HD2	1.78	0.47
1:I:702:VAL:N	1:I:721:GLU:OE1	2.48	0.47
1:I:760:VAL:HB	1:I:768:ILE:HG22	1.96	0.47
1:I:847:VAL:N	1:I:858:GLU:O	2.44	0.47
1:K:57:GLY:HA2	1:K:60:ARG:NH1	2.30	0.47
1:K:1049:LEU:N	1:K:1061:LEU:HB3	2.19	0.47
1:K:1216:ALA:HB1	1:K:1237:ARG:HE	1.78	0.47
1:H:29:CYS:SG	1:H:48:ILE:HG21	2.54	0.47
1:H:1029:GLU:CG	1:H:1060:TYR:OH	2.62	0.47
1:H:1149:LEU:HD23	1:H:1181:CYS:HA	1.96	0.47
1:H:1187:GLN:HG3	1:H:1188:LYS:N	2.29	0.47
1:J:229:ARG:NH2	1:J:258:LEU:HA	2.30	0.47
1:J:270:GLN:HA	1:J:407:LYS:HZ3	1.80	0.47
1:J:476:LYS:NZ	1:J:526:PRO:O	2.45	0.47
1:L:15:ILE:HD11	1:L:92:ILE:HG23	1.96	0.47
1:L:40:LEU:HD13	1:L:45:ILE:HG23	1.96	0.47
1:L:244:LEU:HB2	1:L:264:LEU:HG	1.97	0.47
1:L:399:MET:HA	1:L:402:VAL:HG22	1.97	0.47
1:L:497:LEU:O	1:L:501:ILE:HB	2.15	0.47
1:L:665:HIS:NE2	1:L:670:HIS:N	2.63	0.47
1:M:179:PHE:O	1:M:242:LEU:HG	2.15	0.47
1:M:885:TYR:HA	1:M:901:HIS:HB3	1.96	0.47
1:M:1238:GLN:C	1:M:1240:LEU:H	2.17	0.47
1:O:94:THR:O	1:O:94:THR:HG22	2.13	0.47
1:O:232:LEU:HD12	1:O:237:TYR:HB3	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:63:ASP:OD2	2:N:65:LYS:NZ	2.34	0.47
2:N:82:ARG:HG3	2:N:83:GLY:H	1.78	0.47
2:D:36:MET:HA	2:D:39:VAL:HG12	1.97	0.47
2:F:43:ILE:O	2:F:82:ARG:NH1	2.47	0.47
1:Q:639:GLY:HA2	1:Q:653:ASP:O	2.14	0.47
1:Q:678:TRP:O	1:Q:680:LEU:N	2.45	0.47
1:Q:849:LEU:HB2	1:Q:850:GLN:H	1.50	0.47
1:Q:866:LYS:HD2	1:Q:876:LEU:CD1	2.44	0.47
1:Q:948:ILE:HG21	1:Q:991:GLU:HG3	1.97	0.47
1:I:622:LEU:HD13	1:I:665:HIS:HD2	1.80	0.47
1:I:663:GLN:HG3	1:I:674:SER:OG	2.14	0.47
1:K:1024:SER:OG	1:K:1047:THR:N	2.29	0.47
1:K:1027:ASN:HB2	1:K:1041:ILE:HA	1.96	0.47
1:H:195:MET:HA	1:H:198:LYS:CG	2.45	0.47
1:H:282:HIS:HE2	1:H:284:SER:HB3	1.78	0.47
1:H:443:ILE:HG13	1:H:478:ILE:HG23	1.96	0.47
1:H:479:GLU:O	1:H:530:ASP:OD2	2.32	0.47
1:H:803:LEU:HD13	1:H:845:LEU:HA	1.96	0.47
1:H:820:ASP:H	1:H:836:VAL:CG1	2.27	0.47
1:H:968:ASN:OD1	1:H:977:MET:HB2	2.14	0.47
1:H:1052:GLN:CD	1:H:1058:ILE:CG1	2.83	0.47
1:H:1226:TYR:CE1	1:H:1233:GLU:HG3	2.49	0.47
1:J:22:ALA:O	1:J:25:ASP:HB3	2.15	0.47
1:J:183:LEU:HD12	1:J:247:VAL:HG22	1.96	0.47
1:J:372:LEU:HA	1:J:375:PHE:CE1	2.50	0.47
1:J:396:SER:O	1:J:400:VAL:N	2.34	0.47
1:J:490:VAL:HG12	1:J:576:GLU:HG3	1.97	0.47
1:J:672:ASN:OD1	1:J:684:CYS:HB2	2.15	0.47
1:J:803:LEU:HA	1:J:846:SER:HB3	1.95	0.47
1:J:890:SER:HA	1:J:897:ASN:HA	1.96	0.47
1:J:923:ALA:O	1:J:1236:ILE:HD13	2.14	0.47
1:J:937:VAL:N	1:J:949:ALA:O	2.48	0.47
1:L:472:GLY:HA2	1:L:487:PHE:CE1	2.49	0.47
1:L:928:VAL:HG21	1:L:1225:ILE:HB	1.95	0.47
1:M:156:GLY:O	1:M:160:VAL:HG22	2.14	0.47
1:M:200:LEU:O	1:M:204:ASP:N	2.34	0.47
1:M:402:VAL:HG21	1:M:420:ILE:HD13	1.95	0.47
1:M:457:ASP:CB	1:M:583:ARG:HE	2.18	0.47
1:M:496:PHE:CZ	1:M:500:LYS:HD2	2.49	0.47
1:M:537:ARG:HA	1:M:540:ASN:ND2	2.29	0.47
1:M:771:PHE:HB3	1:M:773:GLN:O	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:867:ARG:HG2	1:M:874:LEU:HA	1.97	0.47
1:O:160:VAL:HA	1:O:163:ASP:HB3	1.95	0.47
1:O:192:VAL:HB	1:O:256:PHE:CZ	2.50	0.47
1:O:411:VAL:HG23	1:O:422:ILE:HD13	1.97	0.47
1:O:534:LYS:HE2	1:O:538:LEU:CD1	2.44	0.47
1:O:656:ARG:HB3	1:O:676:LYS:HE3	1.93	0.47
1:O:719:LEU:HD22	1:O:749:GLN:HE21	1.79	0.47
1:O:910:LEU:HB2	1:O:913:PRO:HD2	1.96	0.47
1:O:1123:VAL:HG13	1:O:1125:HIS:ND1	2.30	0.47
2:A:10:MET:HG3	2:A:84:PRO:HA	1.96	0.47
2:B:10:MET:HE3	2:B:84:PRO:HA	1.97	0.47
2:B:52:THR:HG23	2:B:78:LYS:HD3	1.97	0.47
2:D:62:MET:SD	2:D:66:ASP:HB3	2.54	0.47
1:Q:229:ARG:CZ	1:Q:258:LEU:HD13	2.45	0.47
1:Q:866:LYS:O	1:Q:875:LEU:N	2.44	0.47
1:Q:872:ARG:NH1	1:Q:872:ARG:O	2.46	0.47
1:Q:987:VAL:HB	1:Q:997:LYS:HB2	1.97	0.47
1:I:48:ILE:HD12	1:I:61:LEU:HD13	1.96	0.47
1:I:201:TYR:HA	1:I:207:TRP:CZ3	2.50	0.47
1:I:320:ASN:O	1:I:324:LEU:HG	2.15	0.47
1:I:668:THR:HG1	1:I:670:HIS:CG	2.32	0.47
1:I:756:SER:HB3	1:I:773:GLN:CG	2.44	0.47
1:I:853:ALA:HA	1:I:856:LEU:HB2	1.97	0.47
1:I:1051:GLN:HB3	1:I:1058:ILE:N	2.30	0.47
1:K:326:ILE:HD13	1:K:349:LEU:HB2	1.96	0.47
1:K:443:ILE:HG23	1:K:478:ILE:HG22	1.96	0.47
1:K:641:ASP:O	1:K:650:ASP:N	2.48	0.47
1:K:757:HIS:HB3	1:K:770:CYS:O	2.15	0.47
1:K:979:ARG:HH22	1:K:1021:ASN:H	1.62	0.47
1:H:758:VAL:HG12	1:H:760:VAL:HG23	1.96	0.47
1:H:824:LYS:HE2	1:H:831:ILE:HG12	1.96	0.47
1:H:882:LEU:HD12	1:H:900:GLU:C	2.35	0.47
1:H:968:ASN:HB2	1:H:977:MET:CB	2.42	0.47
1:H:1052:GLN:NE2	1:H:1058:ILE:CG1	2.71	0.47
1:J:745:ASN:N	1:J:745:ASN:ND2	2.63	0.47
1:J:761:LEU:HD13	1:J:815:ALA:HB1	1.97	0.47
1:J:1025:ALA:HB3	1:J:1044:ILE:O	2.15	0.47
1:J:1051:GLN:C	1:J:1060:TYR:CE1	2.86	0.47
1:L:349:LEU:HD13	1:L:429:LEU:HD22	1.97	0.47
1:L:354:GLU:HB2	1:L:430:LYS:NZ	2.29	0.47
1:M:757:HIS:ND1	1:M:778:TYR:OH	2.33	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:244:LEU:HB2	1:O:264:LEU:CB	2.45	0.47
1:O:336:ALA:HB3	1:O:339:ASP:HB3	1.97	0.47
1:O:543:LEU:O	1:O:547:PRO:HD3	2.15	0.47
1:O:619:ASP:H	1:O:634:ASP:HA	1.80	0.47
1:O:702:VAL:HG21	2:N:60:PHE:HZ	1.78	0.47
1:O:895:ARG:C	1:O:911:PHE:H	2.18	0.47
1:O:934:LEU:HB2	1:O:950:TRP:CE3	2.50	0.47
1:O:987:VAL:HG21	1:O:1032:PHE:CG	2.49	0.47
2:E:24:ILE:HD12	2:E:105:LEU:HD13	1.97	0.47
2:G:26:VAL:HG13	2:G:27:GLU:HG2	1.97	0.47
1:Q:85:TYR:HD2	1:Q:89:MET:HG3	1.80	0.47
1:Q:131:TYR:HD2	1:Q:164:VAL:HG12	1.80	0.47
1:Q:304:TYR:O	1:Q:332:ARG:NH2	2.48	0.47
1:I:468:TYR:CE1	1:I:501:ILE:HD13	2.50	0.47
1:I:470:HIS:HB3	1:I:474:HIS:HE1	1.80	0.47
1:I:502:ARG:NE	1:I:503:HIS:H	2.13	0.47
1:K:287:HIS:HB3	1:K:290:MET:CG	2.43	0.47
1:K:288:HIS:O	1:K:291:THR:HG22	2.15	0.47
1:K:372:LEU:HA	1:K:375:PHE:CE2	2.49	0.47
1:K:400:VAL:HG12	1:K:404:LYS:NZ	2.30	0.47
1:K:483:ARG:HG3	1:K:487:PHE:CD2	2.49	0.47
1:K:1060:TYR:C	1:K:1067:ASN:HB2	2.35	0.47
1:H:227:GLU:O	1:H:230:ARG:HG3	2.15	0.47
1:H:458:LEU:O	1:H:460:PRO:HD3	2.15	0.47
1:H:676:LYS:H	1:H:676:LYS:CD	2.27	0.47
1:H:680:LEU:HD22	1:H:696:GLN:OE1	2.15	0.47
1:H:971:LEU:C	1:H:971:LEU:HD23	2.35	0.47
1:J:458:LEU:CD2	1:J:488:ARG:HH21	2.28	0.47
1:J:1068:ILE:HG22	1:J:1070:VAL:HG23	1.97	0.47
1:L:374:VAL:HG23	1:L:375:PHE:CE1	2.50	0.47
1:L:476:LYS:HE2	1:L:527:TYR:HA	1.96	0.47
1:L:532:ASP:HB2	1:L:533:PRO:CD	2.45	0.47
1:L:643:TYR:CD2	1:L:648:GLU:HG3	2.50	0.47
1:L:1022:ALA:C	1:L:1024:SER:H	2.18	0.47
1:L:1069:LEU:HD11	1:L:1105:LYS:HE3	1.97	0.47
1:M:229:ARG:HA	1:M:232:LEU:HD21	1.97	0.47
1:M:524:TYR:HE2	1:M:543:LEU:HB2	1.80	0.47
1:O:152:VAL:HG22	1:O:153:LEU:HD23	1.97	0.47
2:A:10:MET:CG	2:A:84:PRO:HA	2.45	0.47
2:C:43:ILE:HG22	2:C:44:LEU:HD23	1.96	0.47
1:Q:616:LEU:CD1	1:Q:635:VAL:CG1	2.92	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:850:GLN:HB3	1:Q:891:ASP:O	2.14	0.47
1:Q:887:LEU:HD12	1:Q:909:GLU:CD	2.27	0.47
1:Q:948:ILE:HG13	1:Q:948:ILE:O	2.14	0.47
1:I:51:SER:CB	1:I:60:ARG:HH21	2.28	0.47
1:I:867:ARG:HG2	1:I:874:LEU:HA	1.97	0.47
1:I:1199:ASP:HB3	1:I:1216:ALA:H	1.80	0.47
1:K:242:LEU:HB2	1:K:262:ILE:HG22	1.95	0.47
1:K:645:LEU:HB3	1:K:646:ARG:HD2	1.97	0.47
1:H:326:ILE:CG1	1:H:348:LYS:HE2	2.45	0.47
1:H:403:ASN:OD1	1:H:407:LYS:NZ	2.40	0.47
1:H:620:PHE:HE1	1:H:901:HIS:CE1	2.25	0.47
1:H:727:GLU:HB2	1:H:737:ILE:HG22	1.97	0.47
1:H:978:THR:O	1:H:985:LEU:HD13	2.14	0.47
1:H:1069:LEU:O	1:H:1078:LYS:N	2.48	0.47
1:H:1134:PHE:HD2	1:H:1184:GLU:HG3	1.77	0.47
1:J:131:TYR:CE2	1:J:164:VAL:HA	2.50	0.47
1:J:406:HIS:CE1	1:J:412:GLU:HA	2.50	0.47
1:J:563:ARG:HH12	1:J:1245:LYS:HB3	1.79	0.47
1:L:130:PRO:O	1:L:134:LEU:HD23	2.14	0.47
1:L:329:GLU:HA	1:L:332:ARG:HD3	1.97	0.47
1:L:819:PHE:CE1	1:L:842:LEU:HA	2.50	0.47
1:L:1110:GLN:OE1	1:L:1123:VAL:N	2.48	0.47
1:M:27:PHE:HE1	1:M:29:CYS:HB2	1.80	0.47
1:M:483:ARG:HD2	1:M:530:ASP:HB3	1.96	0.47
1:M:646:ARG:HH12	1:M:648:GLU:CG	2.28	0.47
1:M:685:PRO:HD2	1:M:690:SER:H	1.80	0.47
1:M:970:TYR:HE2	1:M:977:MET:HB2	1.80	0.47
1:O:401:VAL:HA	1:O:404:LYS:NZ	2.31	0.47
1:O:715:VAL:HG13	1:O:736:PHE:CD2	2.50	0.47
1:O:770:CYS:HB3	1:O:777:ARG:NH2	2.30	0.47
1:O:975:MET:SD	1:O:989:SER:HA	2.55	0.47
1:O:1219:ASN:CB	1:O:1238:GLN:HE22	2.26	0.47
1:Q:326:ILE:HD11	1:Q:348:LYS:HB2	1.97	0.47
1:Q:631:LEU:HA	1:Q:641:ASP:OD1	2.14	0.47
1:Q:657:MET:CG	1:Q:676:LYS:HE2	2.44	0.47
1:K:887:LEU:C	1:K:888:LYS:HD3	2.36	0.47
1:H:719:LEU:CD2	1:H:751:GLN:CB	2.93	0.46
1:J:60:ARG:O	1:J:64:THR:HG23	2.14	0.46
1:J:386:LEU:HA	1:J:389:ILE:HG22	1.97	0.46
1:J:463:LEU:N	1:J:467:PHE:HB2	2.29	0.46
1:J:1012:THR:O	1:J:1013:HIS:ND1	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:83:ILE:HG13	1:L:84:ASN:N	2.29	0.46
1:L:130:PRO:O	1:L:133:LYS:N	2.43	0.46
1:L:136:GLN:NE2	1:L:136:GLN:H	2.12	0.46
1:L:1025:ALA:HB1	1:L:1041:ILE:HG22	1.97	0.46
1:L:1188:LYS:N	1:L:1230:GLU:OE2	2.47	0.46
1:M:63:TRP:CH2	1:M:128:LEU:HA	2.50	0.46
1:M:112:ARG:NE	1:M:112:ARG:O	2.48	0.46
1:M:495:ARG:HG2	1:M:561:LEU:HD11	1.96	0.46
1:M:719:LEU:HD23	1:M:725:LEU:HD22	1.97	0.46
1:M:818:VAL:HG12	1:M:819:PHE:HD2	1.80	0.46
1:M:1066:PRO:HB3	1:M:1082:PHE:CE1	2.50	0.46
1:M:1067:ASN:O	1:M:1081:ILE:N	2.37	0.46
1:O:65:LEU:HD12	1:O:66:LEU:N	2.30	0.46
1:O:446:HIS:HB3	1:O:474:HIS:HB3	1.97	0.46
1:O:492:LEU:HA	1:O:495:ARG:HD3	1.97	0.46
1:O:516:ASN:O	1:O:520:GLN:NE2	2.48	0.46
1:O:532:ASP:OD1	1:O:533:PRO:HD3	2.14	0.46
2:B:11:PRO:HD2	2:B:14:HIS:CE1	2.50	0.46
2:D:18:ILE:HD11	2:D:87:TYR:CE1	2.50	0.46
2:D:21:ASN:HA	2:D:24:ILE:HD13	1.97	0.46
2:E:26:VAL:HG23	2:E:72:HIS:HB3	1.97	0.46
2:F:10:MET:N	2:F:84:PRO:HA	2.31	0.46
2:F:25:LEU:O	2:F:29:THR:OG1	2.27	0.46
1:Q:145:LYS:O	1:Q:261:LYS:HA	2.15	0.46
1:Q:951:VAL:HG21	1:Q:1234:HIS:CE1	2.50	0.46
1:K:476:LYS:HD3	1:K:527:TYR:CD2	2.50	0.46
1:K:516:ASN:O	1:K:520:GLN:NE2	2.48	0.46
1:K:728:ALA:HB2	1:K:735:ALA:HA	1.97	0.46
1:K:1216:ALA:HA	1:K:1237:ARG:HH21	1.80	0.46
1:H:1019:LYS:NZ	1:H:1050:PRO:HB2	2.30	0.46
1:J:523:PHE:O	1:J:526:PRO:CG	2.62	0.46
1:L:330:SER:OG	1:L:345:ASN:ND2	2.45	0.46
1:L:486:LEU:HA	1:L:488:ARG:HH11	1.79	0.46
1:L:966:GLU:HA	1:L:966:GLU:OE2	2.15	0.46
1:L:1187:GLN:HG2	1:L:1230:GLU:HG2	1.97	0.46
1:M:50:MET:SD	1:M:51:SER:N	2.88	0.46
1:M:275:LEU:HD12	1:M:282:HIS:CG	2.50	0.46
1:M:544:ASP:O	1:M:548:LYS:HE2	2.14	0.46
1:M:563:ARG:NH1	1:M:1245:LYS:HG3	2.30	0.46
1:O:175:ASP:HB2	1:O:177:LYS:NZ	2.30	0.46
1:O:685:PRO:HD3	1:O:691:GLY:HA3	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:781:VAL:HG13	1:O:783:THR:HG23	1.96	0.46
2:E:21:ASN:HB3	2:E:24:ILE:HD11	1.97	0.46
2:F:20:LYS:O	2:F:23:ASN:ND2	2.47	0.46
1:Q:345:ASN:HA	1:Q:348:LYS:HG2	1.95	0.46
1:Q:620:PHE:HZ	1:Q:661:ASN:H	1.59	0.46
1:I:489:MET:O	1:I:495:ARG:NH2	2.48	0.46
1:I:926:LYS:HD2	1:I:1236:ILE:HG12	1.97	0.46
1:K:120:PHE:HA	1:K:159:TRP:CZ3	2.49	0.46
1:K:624:ALA:HB3	1:K:628:GLY:H	1.80	0.46
1:K:624:ALA:CB	1:K:629:GLN:H	2.29	0.46
1:K:1187:GLN:HG2	1:K:1188:LYS:HG3	1.95	0.46
1:K:1217:VAL:H	1:K:1237:ARG:CZ	2.28	0.46
1:H:138:LEU:HD13	1:H:141:LEU:HD13	1.97	0.46
1:H:162:LEU:O	1:H:166:LEU:HD23	2.15	0.46
1:H:402:VAL:HA	1:H:405:LEU:HD12	1.97	0.46
1:H:612:HIS:CE1	1:H:905:VAL:HG13	2.50	0.46
1:H:660:PHE:CE1	1:H:677:LEU:CD1	2.99	0.46
1:H:851:SER:OG	1:H:894:LEU:HG	2.14	0.46
1:J:88:LEU:O	1:J:91:PRO:HD2	2.15	0.46
1:J:480:HIS:CG	1:J:481:PRO:CD	2.99	0.46
1:J:488:ARG:CZ	1:J:491:PHE:CE2	2.98	0.46
1:J:880:GLU:OE1	1:J:899:SER:HB3	2.15	0.46
1:L:82:ARG:NH2	1:L:93:LYS:NZ	2.63	0.46
1:L:127:ARG:NH2	1:L:291:THR:O	2.48	0.46
1:L:478:ILE:HG13	1:L:479:GLU:N	2.30	0.46
1:L:488:ARG:HG3	1:L:491:PHE:CD2	2.50	0.46
1:L:619:ASP:HB2	1:L:634:ASP:HA	1.97	0.46
1:L:726:PRO:HA	1:L:738:ASN:OD1	2.16	0.46
1:L:1056:GLU:N	1:L:1057:PRO:HD2	2.29	0.46
1:M:225:GLN:O	1:M:229:ARG:HG3	2.15	0.46
1:M:729:ASN:HB2	1:M:732:LEU:HB2	1.97	0.46
1:O:320:ASN:O	1:O:323:ARG:HG2	2.16	0.46
1:O:525:LYS:N	1:O:526:PRO:HD2	2.30	0.46
1:O:756:SER:HA	1:O:772:VAL:HB	1.98	0.46
1:O:819:PHE:CE1	1:O:843:PRO:HD3	2.51	0.46
2:A:46:VAL:O	2:A:49:LEU:HG	2.15	0.46
2:B:95:ARG:NH1	2:B:103:ALA:HB1	2.30	0.46
2:C:73:ARG:O	2:C:77:LEU:HG	2.16	0.46
2:E:26:VAL:HG23	2:E:72:HIS:HD2	1.81	0.46
2:E:76:LEU:O	2:E:80:THR:HG23	2.15	0.46
2:F:32:GLU:HB3	2:F:36:MET:HE3	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:68:ARG:O	2:F:71:GLN:HB2	2.15	0.46
1:Q:620:PHE:N	1:Q:620:PHE:CD1	2.81	0.46
1:Q:946:ARG:HG3	1:Q:959:VAL:O	2.14	0.46
1:I:666:LEU:HG	1:I:671:CYS:HB2	1.98	0.46
1:K:195:MET:O	1:K:199:LEU:HG	2.15	0.46
1:K:765:GLN:HE21	1:K:817:ASP:CG	2.19	0.46
1:H:31:ASP:O	1:H:33:GLN:NE2	2.49	0.46
1:H:48:ILE:HG12	1:H:60:ARG:HD2	1.96	0.46
1:H:260:CYS:SG	1:H:261:LYS:N	2.88	0.46
1:H:480:HIS:HB3	1:H:530:ASP:CB	2.43	0.46
1:H:803:LEU:HD12	1:H:817:ASP:OD1	2.15	0.46
1:H:966:GLU:O	1:H:978:THR:HA	2.16	0.46
1:H:975:MET:N	1:H:992:ARG:HB2	2.31	0.46
1:H:984:LEU:HD23	1:H:984:LEU:C	2.36	0.46
1:H:997:LYS:HD2	1:H:998:PRO:HD3	1.98	0.46
1:J:666:LEU:HD12	1:J:670:HIS:HB2	1.97	0.46
1:L:70:GLU:OE1	1:L:74:GLN:NE2	2.48	0.46
1:L:460:PRO:HD2	1:L:462:TYR:CE1	2.50	0.46
1:L:476:LYS:HG3	1:L:527:TYR:CD1	2.50	0.46
1:L:677:LEU:HD12	1:L:678:TRP:CD1	2.50	0.46
1:L:866:LYS:NZ	1:L:878:THR:HG22	2.31	0.46
1:L:1109:LEU:CB	1:L:1130:ASN:OD1	2.59	0.46
1:L:1221:LYS:HE3	1:L:1237:ARG:NH2	2.31	0.46
1:M:134:LEU:HD21	1:M:283:ILE:HG21	1.97	0.46
1:M:629:GLN:C	1:M:644:LEU:HD21	2.35	0.46
1:M:640:GLU:OE1	1:M:642:THR:HG23	2.15	0.46
1:M:811:ASP:O	1:M:826:ALA:N	2.48	0.46
1:M:929:VAL:HG22	1:M:969:VAL:HG13	1.97	0.46
1:M:1053:PHE:HD2	1:M:1057:PRO:HB2	1.80	0.46
1:O:18:VAL:HG13	1:O:168:TYR:CZ	2.51	0.46
1:O:141:LEU:HG	1:O:261:LYS:HG2	1.97	0.46
1:O:153:LEU:HB2	1:O:267:ARG:NE	2.29	0.46
1:O:475:LEU:CB	1:O:487:PHE:HE1	2.29	0.46
1:O:656:ARG:CG	1:O:676:LYS:CE	2.72	0.46
2:E:14:HIS:O	2:E:18:ILE:HG13	2.16	0.46
2:E:33:ARG:NH2	2:E:96:ASN:O	2.48	0.46
2:E:58:LYS:HG3	2:E:62:MET:HE1	1.97	0.46
2:F:19:ARG:NH2	2:F:22:LEU:HD22	2.31	0.46
1:Q:36:PRO:O	1:Q:38:SER:N	2.47	0.46
1:Q:687:ARG:O	1:Q:689:HIS:ND1	2.49	0.46
1:Q:1013:HIS:CD2	1:Q:1057:PRO:HD2	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:405:LEU:HD22	1:I:410:LEU:CD2	2.45	0.46
1:I:484:MET:HE1	1:I:531:ASN:HD21	1.80	0.46
1:I:680:LEU:HD22	1:I:696:GLN:HA	1.98	0.46
1:I:928:VAL:HB	1:I:1225:ILE:HG21	1.97	0.46
1:K:76:PHE:O	1:K:80:VAL:HB	2.16	0.46
1:K:480:HIS:CD2	1:K:481:PRO:HD3	2.51	0.46
1:K:532:ASP:O	1:K:536:GLU:HG2	2.15	0.46
1:H:182:ASN:HB2	1:H:184:LYS:HG2	1.97	0.46
1:J:818:VAL:HG12	1:J:819:PHE:CD2	2.50	0.46
1:J:1050:PRO:O	1:J:1091:GLN:CD	2.54	0.46
1:L:443:ILE:HG13	1:L:478:ILE:HG23	1.97	0.46
1:M:156:GLY:HA3	1:M:321:PRO:HG2	1.97	0.46
1:M:518:LEU:HD22	1:M:647:ASP:O	2.15	0.46
1:M:950:TRP:CD1	1:M:955:ASP:HB2	2.51	0.46
1:M:1186:ALA:HA	1:M:1193:TYR:CE1	2.51	0.46
1:O:183:LEU:N	1:O:245:LEU:O	2.34	0.46
1:O:225:GLN:HA	1:O:228:LEU:HD12	1.97	0.46
1:O:674:SER:O	1:O:681:TRP:HA	2.16	0.46
1:O:747:ASP:HB2	1:O:761:LEU:O	2.15	0.46
1:O:765:GLN:OE1	1:O:785:ASN:ND2	2.49	0.46
2:N:69:VAL:HG12	2:N:73:ARG:HH12	1.81	0.46
2:C:30:ASN:HB3	2:C:33:ARG:HB3	1.97	0.46
1:Q:106:TYR:CE1	1:Q:168:TYR:HA	2.51	0.46
1:Q:449:ILE:CG2	1:Q:450:PRO:HD3	2.45	0.46
1:Q:1126:LEU:HD21	1:Q:1130:ASN:HD21	1.81	0.46
1:I:57:GLY:HA2	1:I:60:ARG:NE	2.30	0.46
1:I:131:TYR:CE1	1:I:164:VAL:HA	2.50	0.46
1:I:456:ASP:OD2	1:I:583:ARG:NH1	2.48	0.46
1:I:634:ASP:OD1	1:I:660:PHE:HB2	2.16	0.46
1:I:1123:VAL:HG13	1:I:1125:HIS:ND1	2.30	0.46
1:K:929:VAL:HG13	1:K:971:LEU:HD22	1.98	0.46
1:H:23:PHE:HA	1:H:27:PHE:HB3	1.97	0.46
1:H:148:LEU:N	1:H:281:THR:O	2.36	0.46
1:H:197:GLN:HB3	1:H:201:TYR:CZ	2.51	0.46
1:H:814:LEU:HA	1:H:822:ARG:O	2.15	0.46
1:H:1012:THR:HG22	1:H:1018:CYS:HA	1.93	0.46
1:H:1109:LEU:HD22	1:H:1144:ILE:HG21	1.98	0.46
1:J:329:GLU:CD	1:J:332:ARG:HD3	2.35	0.46
1:J:681:TRP:HA	1:J:682:PRO:HD3	1.72	0.46
1:J:913:PRO:HB2	1:J:917:TYR:HE1	1.80	0.46
1:J:929:VAL:HB	1:J:935:ARG:O	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:486:LEU:HD13	1:L:488:ARG:NH1	2.30	0.46
1:M:522:LYS:HA	1:M:525:LYS:NZ	2.31	0.46
1:M:833:LYS:NZ	1:M:869:THR:HG22	2.31	0.46
1:M:1061:LEU:HD11	1:M:1103:SER:CB	2.46	0.46
1:O:929:VAL:HG21	1:O:969:VAL:HG11	1.98	0.46
1:O:940:SER:HB2	1:O:964:CYS:HB3	1.96	0.46
1:Q:615:TYR:CD1	1:Q:615:TYR:N	2.82	0.46
1:Q:623:ILE:CB	1:Q:897:ASN:HD22	2.29	0.46
1:I:148:LEU:HG	1:I:264:LEU:HD21	1.97	0.46
1:I:675:VAL:HG23	1:I:681:TRP:CZ2	2.51	0.46
1:I:825:THR:HG22	1:I:832:PHE:CZ	2.50	0.46
1:I:856:LEU:HA	1:I:857:PRO:HD3	1.83	0.46
1:K:406:HIS:CE1	1:K:412:GLU:HA	2.51	0.46
1:K:423:PRO:HB2	1:K:425:ILE:HG22	1.98	0.46
1:K:640:GLU:HG2	1:K:652:SER:OG	2.15	0.46
1:K:836:VAL:O	1:K:867:ARG:NH2	2.42	0.46
1:K:1187:GLN:HB2	1:K:1194:LEU:HG	1.98	0.46
1:H:371:ARG:NH1	1:H:438:ALA:HB1	2.31	0.46
1:J:146:ASN:OD1	1:J:280:THR:HG22	2.16	0.46
1:J:471:ILE:O	1:J:475:LEU:HB2	2.16	0.46
1:J:768:ILE:HG22	1:J:780:VAL:CB	2.46	0.46
1:L:113:LEU:HD23	1:L:166:LEU:CD2	2.44	0.46
1:L:163:ASP:HA	1:L:166:LEU:HD12	1.98	0.46
1:M:440:HIS:CG	1:M:441:ARG:H	2.34	0.46
1:M:1242:SER:HB2	1:M:1243:PRO:HD3	1.97	0.46
1:O:458:LEU:O	1:O:460:PRO:HD3	2.16	0.46
1:O:707:GLY:HA2	1:O:716:ALA:HA	1.98	0.46
1:Q:96:GLN:OE1	1:Q:97:ARG:NH1	2.49	0.46
1:Q:142:ARG:HH22	1:Q:144:ALA:HB3	1.79	0.46
1:Q:360:LEU:HD21	1:Q:366:ARG:HH11	1.79	0.46
1:Q:415:PRO:HA	1:Q:418:SER:HA	1.98	0.46
1:Q:656:ARG:HD3	1:Q:656:ARG:HA	1.64	0.46
1:I:148:LEU:HD22	1:I:282:HIS:CD2	2.51	0.46
1:I:274:PHE:CD2	1:I:275:LEU:HD22	2.50	0.46
1:I:1061:LEU:HG	1:I:1091:GLN:OE1	2.16	0.46
1:K:120:PHE:HZ	1:K:163:ASP:HB3	1.80	0.46
1:K:463:LEU:CD2	1:K:466:TYR:H	2.21	0.46
1:H:769:ARG:HB3	1:H:778:TYR:HD2	1.81	0.46
1:H:893:VAL:O	1:H:893:VAL:HG12	2.16	0.46
1:H:954:ALA:CB	1:H:976:ASP:OD1	2.64	0.46
1:H:975:MET:HE2	1:H:975:MET:HB2	1.66	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1030:GLN:HB3	1:H:1036:VAL:O	2.15	0.46
1:H:1052:GLN:CD	1:H:1058:ILE:HG13	2.35	0.46
1:J:288:HIS:O	1:J:291:THR:HG22	2.16	0.46
1:J:323:ARG:HA	1:J:326:ILE:HG22	1.97	0.46
1:J:808:VAL:HG21	1:J:852:GLU:N	2.31	0.46
1:J:1012:THR:OG1	1:J:1053:PHE:CB	2.63	0.46
1:J:1153:LEU:CD2	1:J:1165:VAL:HB	2.45	0.46
1:L:536:GLU:O	1:L:539:VAL:HG22	2.15	0.46
1:M:78:GLU:HB2	1:M:79:GLU:OE1	2.16	0.46
1:M:443:ILE:HD12	1:M:446:HIS:ND1	2.31	0.46
1:M:499:GLN:HE22	1:M:500:LYS:HG3	1.80	0.46
1:M:920:LEU:HA	1:M:1243:PRO:HD2	1.97	0.46
1:O:46:ASP:HA	1:O:49:ILE:HD13	1.96	0.46
1:O:183:LEU:HB3	1:O:186:CYS:SG	2.56	0.46
1:O:225:GLN:NE2	1:O:255:ALA:O	2.48	0.46
1:O:298:LYS:HA	1:O:298:LYS:HD2	1.70	0.46
2:G:91:ILE:HG23	2:G:95:ARG:CZ	2.45	0.46
1:Q:809:GLU:C	1:Q:811:ASP:N	2.70	0.46
1:Q:1223:GLN:O	1:Q:1224:LEU:HD23	2.16	0.46
1:I:178:ILE:HG23	1:I:241:LEU:HB3	1.96	0.46
1:I:201:TYR:HA	1:I:207:TRP:HZ3	1.81	0.46
1:I:448:ASN:O	1:I:452:THR:HG23	2.16	0.46
1:I:756:SER:HB3	1:I:773:GLN:HB2	1.97	0.46
1:I:1021:ASN:HB3	1:I:1025:ALA:H	1.81	0.46
1:K:277:ALA:HA	1:K:282:HIS:CD2	2.51	0.46
1:K:400:VAL:HG12	1:K:404:LYS:HZ3	1.81	0.46
1:K:1135:VAL:HG12	1:K:1142:GLU:CD	2.37	0.46
1:H:180:TRP:CE3	1:H:245:LEU:HD11	2.51	0.46
1:H:618:ASN:HD22	1:H:904:CYS:HA	1.79	0.46
1:H:683:ASP:N	1:H:694:LYS:HZ3	2.14	0.46
1:H:968:ASN:CB	1:H:977:MET:HB2	2.43	0.46
1:H:997:LYS:CD	1:H:998:PRO:HD3	2.45	0.46
1:J:45:ILE:O	1:J:49:ILE:HG12	2.16	0.46
1:J:85:TYR:HE1	2:D:82:ARG:HA	1.80	0.46
1:J:174:MET:HE1	1:J:241:LEU:HB2	1.98	0.46
1:J:330:SER:HB3	1:J:340:ASN:HD22	1.80	0.46
1:J:803:LEU:HA	1:J:846:SER:HB2	1.98	0.46
1:J:862:ILE:HG22	1:J:885:TYR:CE1	2.50	0.46
1:J:970:TYR:HA	1:J:990:LYS:HG3	1.97	0.46
1:L:113:LEU:HD11	1:L:162:LEU:HD22	1.98	0.46
1:L:172:CYS:HA	1:L:176:PHE:CZ	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:200:LEU:HB2	1:L:228:LEU:HD21	1.98	0.46
1:L:563:ARG:HH12	1:L:1245:LYS:HA	1.79	0.46
1:L:566:LEU:O	1:L:569:GLU:HG2	2.16	0.46
1:L:628:GLY:HA2	1:L:644:LEU:HB2	1.98	0.46
1:L:672:ASN:CG	1:L:684:CYS:SG	2.93	0.46
1:L:961:THR:HG21	1:L:988:ASP:OD2	2.15	0.46
1:M:183:LEU:HA	1:M:186:CYS:SG	2.56	0.46
1:M:622:LEU:HD21	1:M:665:HIS:HD2	1.79	0.46
1:O:46:ASP:HA	1:O:49:ILE:CD1	2.46	0.46
1:O:86:LYS:H	2:N:82:ARG:NH2	2.13	0.46
1:O:319:THR:HB	1:O:323:ARG:NH2	2.31	0.46
2:D:82:ARG:HH12	2:D:89:LEU:HD23	1.80	0.46
1:Q:268:PHE:HB3	1:Q:270:GLN:HG2	1.97	0.46
1:Q:675:VAL:CG1	1:Q:681:TRP:HB2	2.45	0.46
1:I:127:ARG:HH11	1:I:128:LEU:N	2.14	0.46
1:I:751:GLN:HA	1:I:758:VAL:CG2	2.46	0.46
1:K:52:LYS:NZ	1:K:55:VAL:HB	2.30	0.46
1:K:77:VAL:O	1:K:82:ARG:NH1	2.48	0.46
1:K:136:GLN:HA	1:K:139:LEU:HG	1.98	0.46
1:K:253:TRP:HE1	1:K:262:ILE:HD11	1.80	0.46
1:K:287:HIS:HD2	1:K:289:SER:OG	1.99	0.46
1:H:305:LEU:HD13	1:H:332:ARG:HB3	1.98	0.46
1:H:380:HIS:HA	1:H:421:SER:HA	1.98	0.46
1:H:1011:PRO:O	1:H:1052:GLN:HG3	2.16	0.46
1:J:212:ASP:N	1:J:212:ASP:OD1	2.48	0.46
1:J:899:SER:OG	1:J:907:ILE:HB	2.16	0.46
1:J:979:ARG:HH11	1:J:1020:ILE:HG23	1.81	0.46
1:J:1018:CYS:O	1:J:1030:GLN:N	2.48	0.46
1:J:1057:PRO:CD	1:J:1098:LEU:HD12	2.45	0.46
1:J:1065:SER:N	1:J:1066:PRO:HD2	2.31	0.46
1:L:295:ASP:HA	1:L:298:LYS:HG2	1.98	0.46
1:L:319:THR:H	1:L:323:ARG:HD3	1.81	0.46
1:L:661:ASN:HB2	1:L:675:VAL:O	2.15	0.46
1:L:728:ALA:HB2	1:L:735:ALA:HA	1.96	0.46
1:M:664:LYS:O	1:M:672:ASN:HB2	2.16	0.46
1:O:141:LEU:HB3	1:O:261:LYS:HE3	1.96	0.46
1:O:174:MET:HG2	1:O:178:ILE:HD11	1.98	0.46
1:O:821:GLU:O	1:O:837:TRP:N	2.49	0.46
2:C:74:ARG:HG3	2:C:78:LYS:NZ	2.31	0.46
1:Q:30:LYS:NZ	1:Q:45:ILE:O	2.49	0.46
1:Q:284:SER:OG	1:Q:286:ASP:OD1	2.26	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:380:HIS:CE1	1:Q:414:GLN:HE22	2.33	0.46
1:Q:643:TYR:CE2	1:Q:650:ASP:OD1	2.69	0.46
1:Q:659:VAL:HG12	1:Q:677:LEU:HD12	1.98	0.46
1:I:443:ILE:HD11	1:I:477:ASN:HB3	1.98	0.46
1:I:979:ARG:CD	1:I:1020:ILE:HD11	2.46	0.46
1:I:1031:ILE:HG22	1:I:1031:ILE:O	2.16	0.46
1:K:396:SER:OG	1:K:399:MET:SD	2.74	0.46
1:K:979:ARG:NE	1:K:1020:ILE:HG23	2.31	0.46
1:H:111:ASP:O	1:H:115:ASN:ND2	2.49	0.45
1:J:40:LEU:HD12	1:J:44:GLU:CD	2.36	0.45
1:J:110:ARG:HA	1:J:113:LEU:HB3	1.98	0.45
1:J:484:MET:CE	1:J:484:MET:HA	2.46	0.45
1:J:656:ARG:HH11	1:J:680:LEU:HB2	1.80	0.45
1:J:664:LYS:HB2	1:J:664:LYS:HE2	1.50	0.45
1:J:845:LEU:HD21	1:J:888:LYS:HG2	1.97	0.45
1:L:149:ILE:HD12	1:L:283:ILE:O	2.16	0.45
1:L:412:GLU:O	1:L:420:ILE:HG23	2.15	0.45
1:L:475:LEU:HD22	1:L:487:PHE:CZ	2.50	0.45
1:L:805:VAL:HG21	1:L:847:VAL:HA	1.98	0.45
1:L:1203:LEU:HD23	1:L:1203:LEU:O	2.15	0.45
1:M:924:LYS:HD2	1:M:1238:GLN:CA	2.47	0.45
1:O:69:GLN:NE2	1:O:71:GLU:HB3	2.23	0.45
1:O:727:GLU:HB2	1:O:736:PHE:HB2	1.98	0.45
1:O:845:LEU:C	1:O:858:GLU:HB3	2.36	0.45
2:A:21:ASN:O	2:A:25:LEU:HG	2.14	0.45
2:A:58:LYS:NZ	2:A:62:MET:SD	2.89	0.45
1:Q:486:LEU:HA	1:Q:488:ARG:NH1	2.31	0.45
1:I:228:LEU:HD23	1:I:231:LEU:HD12	1.97	0.45
1:I:476:LYS:HD2	1:I:527:TYR:HA	1.98	0.45
1:I:610:GLY:HA2	1:I:906:ASP:O	2.15	0.45
1:I:923:ALA:HB3	1:I:940:SER:HB3	1.97	0.45
1:K:122:LYS:HE2	1:K:123:TYR:CZ	2.51	0.45
1:K:809:GLU:CD	1:K:811:ASP:HB3	2.36	0.45
1:K:987:VAL:CG2	1:K:997:LYS:HB2	2.46	0.45
1:H:282:HIS:NE2	1:H:284:SER:HB3	2.31	0.45
1:H:1030:GLN:HB3	1:H:1031:ILE:H	1.45	0.45
1:H:1031:ILE:CG1	1:H:1036:VAL:HB	2.46	0.45
1:J:188:SER:HB3	1:J:191:THR:HG23	1.98	0.45
1:J:716:ALA:CB	1:J:718:TYR:CZ	2.97	0.45
1:J:886:ASP:HB2	1:J:900:GLU:O	2.16	0.45
1:J:968:ASN:ND2	1:J:1009:ILE:HD12	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1012:THR:OG1	1:J:1053:PHE:HB3	2.15	0.45
1:L:113:LEU:CD2	1:L:166:LEU:HD23	2.44	0.45
1:L:288:HIS:O	1:L:291:THR:HG22	2.16	0.45
1:L:643:TYR:HB2	1:L:647:ASP:N	2.27	0.45
1:L:820:ASP:OD2	1:L:822:ARG:NE	2.48	0.45
1:L:1045:HIS:CD2	1:L:1045:HIS:H	2.32	0.45
1:L:1129:ALA:O	1:L:1147:PHE:CZ	2.69	0.45
1:M:179:PHE:N	1:M:241:LEU:O	2.49	0.45
1:M:216:ASN:HB2	1:M:219:LEU:HB2	1.99	0.45
1:M:293:THR:O	1:M:297:VAL:HG23	2.15	0.45
1:M:948:ILE:HG21	1:M:990:LYS:HD3	1.96	0.45
1:O:87:PHE:O	1:O:90:SER:OG	2.29	0.45
1:O:131:TYR:CE1	1:O:164:VAL:HA	2.51	0.45
1:O:142:ARG:HD3	1:O:142:ARG:HA	1.75	0.45
1:O:192:VAL:HB	1:O:256:PHE:CE2	2.51	0.45
1:O:300:LEU:HD11	1:O:304:TYR:HE2	1.81	0.45
2:N:14:HIS:HB3	2:N:87:TYR:CZ	2.51	0.45
2:F:52:THR:HA	2:F:78:LYS:HE2	1.97	0.45
1:Q:181:LEU:HD22	1:Q:198:LYS:HZ3	1.82	0.45
1:Q:247:VAL:HG21	1:Q:264:LEU:HD12	1.99	0.45
1:Q:621:CYS:HA	1:Q:899:SER:O	2.16	0.45
1:I:1018:CYS:N	1:I:1029:GLU:HG3	2.31	0.45
1:I:1046:ASP:O	1:I:1063:GLN:HG2	2.17	0.45
1:K:354:GLU:OE2	1:K:358:ASN:ND2	2.38	0.45
1:K:488:ARG:HG3	1:K:491:PHE:CD2	2.51	0.45
1:K:855:GLN:NE2	1:K:867:ARG:HB3	2.31	0.45
1:K:977:MET:SD	1:K:987:VAL:HA	2.56	0.45
1:H:183:LEU:HD11	1:H:244:LEU:HD12	1.97	0.45
1:H:607:ASP:N	1:H:607:ASP:OD1	2.50	0.45
1:H:732:LEU:HD23	1:H:736:PHE:CE1	2.51	0.45
1:J:331:ILE:HG12	1:J:336:ALA:O	2.16	0.45
1:J:502:ARG:HE	1:J:503:HIS:H	1.64	0.45
1:J:639:GLY:HA3	1:J:655:LEU:HD11	1.98	0.45
1:J:822:ARG:HG2	1:J:834:TYR:HE1	1.82	0.45
1:J:946:ARG:NH1	1:J:966:GLU:O	2.49	0.45
1:L:82:ARG:NH2	1:L:93:LYS:HZ3	2.14	0.45
1:L:118:GLN:O	1:K:276:SER:OG	2.35	0.45
1:L:321:PRO:HB2	1:L:322:ARG:NH1	2.32	0.45
1:M:154:GLY:N	1:M:157:LYS:NZ	2.61	0.45
1:M:222:HIS:CE1	1:O:198:LYS:HD2	2.51	0.45
1:M:532:ASP:O	1:M:536:GLU:HG2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:274:PHE:CD2	1:O:275:LEU:HD22	2.51	0.45
1:O:659:VAL:O	1:O:676:LYS:HA	2.16	0.45
1:O:784:SER:O	1:O:784:SER:OG	2.33	0.45
1:O:845:LEU:CB	1:O:858:GLU:O	2.62	0.45
1:Q:406:HIS:ND1	1:Q:411:VAL:O	2.49	0.45
1:I:234:SER:HB2	1:I:237:TYR:HB2	1.98	0.45
1:I:284:SER:OG	1:I:285:LEU:N	2.50	0.45
1:I:319:THR:OG1	1:I:323:ARG:NH1	2.45	0.45
1:I:1018:CYS:C	1:I:1029:GLU:HG3	2.36	0.45
1:K:39:ILE:HA	1:K:72:MET:SD	2.55	0.45
1:K:349:LEU:HD12	1:K:352:ILE:HD11	1.97	0.45
1:K:483:ARG:NH2	1:K:528:ILE:HA	2.32	0.45
1:H:292:LEU:HD23	1:H:296:GLU:HB3	1.98	0.45
1:H:672:ASN:O	1:H:683:ASP:HA	2.16	0.45
1:H:952:HIS:CB	1:H:990:LYS:CD	2.94	0.45
1:J:19:PHE:HB3	1:J:22:ALA:HB3	1.99	0.45
1:J:61:LEU:O	1:J:64:THR:OG1	2.26	0.45
1:J:127:ARG:H	1:J:127:ARG:HG2	1.50	0.45
1:J:762:LYS:HE3	1:J:768:ILE:HG12	1.96	0.45
1:J:938:SER:HA	1:J:947:GLU:O	2.17	0.45
1:J:1031:ILE:HB	1:J:1036:VAL:HB	1.98	0.45
1:J:1054:ILE:HD12	1:J:1059:ASP:HA	1.99	0.45
1:L:194:GLU:OE1	1:L:194:GLU:N	2.47	0.45
1:L:881:GLY:HA3	1:L:885:TYR:CE2	2.52	0.45
1:L:896:SER:HB3	1:L:909:GLU:O	2.16	0.45
1:M:387:SER:CB	1:M:398:VAL:HG21	2.47	0.45
1:M:483:ARG:NH2	1:M:528:ILE:HA	2.31	0.45
1:M:1110:GLN:HE21	1:M:1110:GLN:HB2	1.58	0.45
1:O:987:VAL:HG22	1:O:1018:CYS:SG	2.57	0.45
2:N:17:HIS:CE1	2:N:106:LEU:HA	2.45	0.45
2:D:103:ALA:O	2:D:106:LEU:HG	2.16	0.45
2:F:30:ASN:HB2	2:F:33:ARG:NE	2.32	0.45
1:Q:18:VAL:HG13	1:Q:168:TYR:CZ	2.52	0.45
1:Q:77:VAL:O	1:Q:89:MET:HE3	2.16	0.45
1:Q:684:CYS:HB2	1:Q:689:HIS:O	2.16	0.45
1:Q:946:ARG:HH22	1:Q:978:THR:HA	1.81	0.45
1:I:45:ILE:O	1:I:49:ILE:HG12	2.16	0.45
1:I:464:ASP:OD1	1:I:501:ILE:HG12	2.16	0.45
1:I:608:ASN:HB2	1:I:908:TYR:O	2.17	0.45
1:I:753:PHE:CG	1:I:753:PHE:O	2.69	0.45
1:I:771:PHE:HB2	1:I:774:VAL:HB	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:620:PHE:CB	1:K:663:GLN:HE22	2.30	0.45
1:K:629:GLN:NE2	1:K:650:ASP:OD2	2.50	0.45
1:K:880:GLU:O	1:K:901:HIS:NE2	2.49	0.45
1:H:171:GLN:HB3	1:H:176:PHE:CE2	2.51	0.45
1:J:365:TYR:OH	1:J:401:VAL:HA	2.17	0.45
1:J:381:ILE:O	1:J:420:ILE:N	2.49	0.45
1:J:885:TYR:HA	1:J:901:HIS:ND1	2.31	0.45
1:L:72:MET:HA	1:L:75:LYS:HG3	1.97	0.45
1:L:320:ASN:HB2	1:L:323:ARG:HG2	1.98	0.45
1:L:562:LEU:HD22	1:L:581:VAL:HG11	1.99	0.45
1:L:816:LEU:HD12	1:L:846:SER:CB	2.47	0.45
1:L:964:CYS:CB	1:L:981:ARG:HD3	2.47	0.45
1:M:856:LEU:HD21	1:M:888:LYS:HB2	1.99	0.45
1:O:24:VAL:HG11	1:O:55:VAL:HG22	1.99	0.45
1:O:179:PHE:HB2	1:O:242:LEU:HD13	1.99	0.45
1:O:399:MET:HA	1:O:402:VAL:HG22	1.99	0.45
1:O:449:ILE:CG2	1:O:450:PRO:HD3	2.47	0.45
2:E:10:MET:HE2	2:E:15:ARG:HH12	1.82	0.45
1:Q:628:GLY:C	1:Q:644:LEU:CD1	2.83	0.45
1:I:562:LEU:HD22	1:I:581:VAL:HB	1.98	0.45
1:I:614:VAL:HG21	1:I:618:ASN:CG	2.37	0.45
1:I:756:SER:HB2	1:I:771:PHE:CA	2.46	0.45
1:I:824:LYS:HA	1:I:832:PHE:H	1.82	0.45
1:K:113:LEU:HG	1:K:162:LEU:HD11	1.99	0.45
1:K:400:VAL:O	1:K:404:LYS:HG3	2.16	0.45
1:K:971:LEU:HD21	1:K:1013:HIS:C	2.36	0.45
1:K:975:MET:HA	1:K:990:LYS:H	1.81	0.45
1:H:177:LYS:HG3	1:H:236:PRO:O	2.17	0.45
1:H:323:ARG:HA	1:H:326:ILE:HG22	1.98	0.45
1:H:367:LYS:HD2	1:H:367:LYS:HA	1.78	0.45
1:H:516:ASN:O	1:H:519:GLN:NE2	2.43	0.45
1:J:626:ALA:O	1:J:628:GLY:N	2.49	0.45
1:J:660:PHE:CD1	1:J:676:LYS:HE2	2.51	0.45
1:J:814:LEU:HD21	1:J:823:SER:CB	2.28	0.45
1:J:1092:PRO:HG2	1:J:1111:GLU:OE2	2.17	0.45
1:L:183:LEU:HG	1:L:244:LEU:HD12	1.99	0.45
1:L:317:LEU:HB2	1:L:341:TRP:HH2	1.81	0.45
1:L:516:ASN:O	1:L:519:GLN:NE2	2.35	0.45
1:L:814:LEU:HD12	1:L:848:SER:HB3	1.99	0.45
1:L:851:SER:HB2	1:L:894:LEU:HD11	1.98	0.45
1:L:1024:SER:HB2	1:L:1026:PHE:CD2	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1060:TYR:O	1:L:1066:PRO:O	2.34	0.45
1:M:69:GLN:HE22	1:M:71:GLU:HG3	1.82	0.45
1:M:431:VAL:HA	1:M:434:GLU:HG2	1.98	0.45
1:M:524:TYR:OH	1:M:539:VAL:HB	2.17	0.45
1:M:1022:ALA:HB3	1:M:1047:THR:HG21	1.97	0.45
1:M:1025:ALA:HA	1:M:1047:THR:HG23	1.99	0.45
1:O:703:LYS:HZ1	1:O:746:TRP:HD1	1.63	0.45
1:O:1070:VAL:HG22	1:O:1077:GLN:HG3	1.99	0.45
2:B:24:ILE:HA	2:B:27:GLU:HG2	1.97	0.45
2:D:24:ILE:O	2:D:28:TRP:HD1	1.99	0.45
1:Q:718:TYR:O	1:Q:726:PRO:HD2	2.16	0.45
1:I:42:LYS:O	1:I:45:ILE:HG22	2.16	0.45
1:I:725:LEU:CD1	1:I:772:VAL:CG1	2.94	0.45
1:I:987:VAL:CG2	1:I:999:ALA:N	2.54	0.45
1:I:997:LYS:HA	1:I:998:PRO:HD3	1.82	0.45
1:I:1131:PRO:HD2	1:I:1145:VAL:O	2.16	0.45
1:K:86:LYS:HD2	1:K:86:LYS:HA	1.74	0.45
1:K:494:PHE:HA	1:K:497:LEU:HB2	1.98	0.45
1:K:946:ARG:HD2	1:K:960:MET:O	2.16	0.45
1:H:247:VAL:HG23	1:H:265:THR:O	2.17	0.45
1:H:474:HIS:O	1:H:478:ILE:HG12	2.17	0.45
1:H:480:HIS:CB	1:H:530:ASP:HB2	2.43	0.45
1:H:498:GLU:HG3	1:H:519:GLN:HE22	1.81	0.45
1:H:1234:HIS:O	1:H:1236:ILE:HG23	2.16	0.45
1:J:79:GLU:N	1:J:79:GLU:OE1	2.49	0.45
1:J:304:TYR:HA	1:J:332:ARG:NH1	2.32	0.45
1:J:382:PRO:HG3	1:J:463:LEU:HD22	1.98	0.45
1:J:668:THR:HB	1:J:670:HIS:CE1	2.52	0.45
1:J:714:ILE:HG21	1:J:730:ILE:CG1	2.45	0.45
1:J:760:VAL:HB	1:J:761:LEU:H	1.39	0.45
1:J:808:VAL:HG21	1:J:851:SER:C	2.36	0.45
1:J:816:LEU:HA	1:J:821:GLU:HA	1.99	0.45
1:J:818:VAL:O	1:J:842:LEU:HD12	2.17	0.45
1:J:1105:LYS:O	1:J:1130:ASN:N	2.50	0.45
1:L:459:ILE:HD13	1:L:497:LEU:HD11	1.98	0.45
1:L:1008:THR:H	1:L:1021:ASN:ND2	2.09	0.45
1:L:1062:LYS:NZ	1:L:1062:LYS:CB	2.73	0.45
1:M:101:MET:N	1:M:104:ARG:HH21	2.15	0.45
1:M:122:LYS:HE2	1:M:123:TYR:CE2	2.51	0.45
1:M:675:VAL:HB	1:M:681:TRP:NE1	2.31	0.45
1:M:1067:ASN:N	1:M:1081:ILE:O	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:81:LEU:HD23	1:O:89:MET:HG3	1.99	0.45
1:O:523:PHE:C	1:O:527:TYR:HD2	2.20	0.45
1:O:1136:LYS:HE2	1:O:1143:TYR:CE1	2.52	0.45
2:E:90:LEU:O	2:E:94:LEU:HD13	2.17	0.45
2:F:55:LEU:HB3	2:F:59:PRO:HB2	1.97	0.45
1:Q:976:ASP:O	1:Q:990:LYS:HB2	2.16	0.45
1:I:349:LEU:HA	1:I:352:ILE:HG22	1.99	0.45
1:I:579:LYS:O	1:I:582:GLN:HB3	2.16	0.45
1:K:714:ILE:O	1:K:729:ASN:HA	2.16	0.45
1:K:1049:LEU:H	1:K:1061:LEU:HD13	1.81	0.45
1:H:336:ALA:HB3	1:H:340:ASN:HD22	1.82	0.45
1:H:660:PHE:HB2	1:H:676:LYS:HB2	1.91	0.45
1:H:661:ASN:O	1:H:676:LYS:HB3	2.17	0.45
1:H:977:MET:CG	1:H:1009:ILE:HD13	2.46	0.45
1:H:1052:GLN:NE2	1:H:1052:GLN:HA	2.32	0.45
1:J:23:PHE:CD1	1:J:88:LEU:HD13	2.52	0.45
1:J:174:MET:CE	1:J:178:ILE:HG13	2.47	0.45
1:J:498:GLU:HG2	1:J:520:GLN:HG2	1.99	0.45
1:J:913:PRO:HB2	1:J:917:TYR:CE1	2.52	0.45
1:J:920:LEU:HD22	1:J:1241:PHE:CE2	2.52	0.45
1:J:1098:LEU:N	1:J:1098:LEU:CD2	2.80	0.45
1:J:1153:LEU:HD13	1:J:1153:LEU:HA	1.76	0.45
1:L:37:LYS:HA	1:L:37:LYS:HE2	1.98	0.45
1:L:181:LEU:O	1:L:245:LEU:N	2.46	0.45
1:L:386:LEU:HD13	1:L:402:VAL:HG11	1.99	0.45
1:L:665:HIS:HA	1:L:672:ASN:HB3	1.99	0.45
1:L:926:LYS:HE3	1:L:1241:PHE:HD2	1.82	0.45
1:L:978:THR:CG2	1:L:986:ALA:N	2.77	0.45
1:L:1149:LEU:HD21	1:L:1167:ARG:HE	1.82	0.45
1:M:90:SER:OG	1:M:91:PRO:HD3	2.17	0.45
1:M:216:ASN:HB2	1:M:219:LEU:CB	2.46	0.45
1:O:86:LYS:H	2:N:82:ARG:HH22	1.65	0.45
1:O:491:PHE:CD1	1:O:576:GLU:HG2	2.52	0.45
1:O:522:LYS:O	1:O:526:PRO:HG2	2.13	0.45
1:O:1134:PHE:HD2	1:O:1143:TYR:HD2	1.65	0.45
1:Q:969:VAL:HG11	1:Q:977:MET:HG2	1.98	0.45
1:I:41:SER:HB3	1:I:44:GLU:CG	2.47	0.45
1:K:44:GLU:HA	1:K:47:HIS:ND1	2.32	0.45
1:K:645:LEU:C	1:K:647:ASP:H	2.20	0.45
1:K:952:HIS:NE2	1:K:1246:LEU:HB2	2.32	0.45
1:K:1008:THR:OG1	1:K:1049:LEU:HD23	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1151:ASN:HB3	1:K:1166:PHE:CE2	2.51	0.45
1:H:77:VAL:HG13	1:H:78:GLU:HG3	1.97	0.45
1:H:812:THR:HA	1:H:824:LYS:O	2.16	0.45
1:H:1027:ASN:O	1:H:1040:ILE:HB	2.17	0.45
1:H:1068:ILE:HG22	1:H:1080:VAL:HG13	1.98	0.45
1:J:138:LEU:O	1:J:173:LYS:NZ	2.31	0.45
1:J:432:LYS:HE2	1:J:433:LEU:HD21	1.98	0.45
1:J:450:PRO:HA	1:J:453:PHE:HB2	1.99	0.45
1:J:475:LEU:HD23	1:J:483:ARG:HA	1.99	0.45
1:J:531:ASN:HB2	1:J:532:ASP:H	1.57	0.45
1:J:622:LEU:HD12	1:J:663:GLN:CG	2.47	0.45
1:J:660:PHE:CD1	1:J:676:LYS:HE3	2.52	0.45
1:J:723:ALA:HA	1:J:744:LEU:HB3	1.99	0.45
1:J:1026:PHE:CB	1:J:1039:VAL:CG1	2.94	0.45
1:L:56:SER:O	1:L:60:ARG:HG2	2.16	0.45
1:L:460:PRO:HD2	1:L:462:TYR:CZ	2.52	0.45
1:L:534:LYS:O	1:L:537:ARG:HG3	2.16	0.45
1:L:1024:SER:HB2	1:L:1026:PHE:HD2	1.82	0.45
1:M:36:PRO:HB2	1:M:39:ILE:HG22	1.98	0.45
1:M:178:ILE:HG23	1:M:241:LEU:HD23	1.98	0.45
1:M:400:VAL:HG12	1:M:404:LYS:NZ	2.32	0.45
1:M:762:LYS:CB	1:M:764:MET:SD	3.02	0.45
1:O:521:LEU:HA	1:O:524:TYR:HB2	1.98	0.45
1:O:771:PHE:HD1	1:O:778:TYR:CE2	2.35	0.45
2:N:93:ALA:O	2:N:97:ILE:HG12	2.17	0.45
2:B:38:CYS:HA	2:B:43:ILE:HD12	1.99	0.45
2:G:34:LEU:HA	2:G:37:GLU:HG2	1.99	0.45
1:Q:23:PHE:HA	1:Q:27:PHE:CD2	2.51	0.45
1:Q:331:ILE:HG23	1:Q:337:THR:HA	1.99	0.45
1:Q:623:ILE:HD13	1:Q:623:ILE:C	2.37	0.45
1:Q:825:THR:HG21	1:Q:830:LEU:CA	2.47	0.45
1:Q:849:LEU:CD2	1:Q:856:LEU:HG	2.47	0.45
1:I:218:LYS:O	1:I:221:ILE:HG22	2.17	0.45
1:I:241:LEU:HA	1:I:261:LYS:O	2.17	0.45
1:I:498:GLU:HA	1:I:501:ILE:HG22	1.98	0.45
1:I:655:LEU:O	1:I:656:ARG:NE	2.41	0.45
1:I:880:GLU:OE1	1:I:899:SER:OG	2.23	0.45
1:I:919:VAL:HG12	1:I:920:LEU:N	2.31	0.45
1:K:174:MET:SD	1:K:241:LEU:HG	2.57	0.45
1:H:243:VAL:HG12	1:H:245:LEU:HD12	1.99	0.45
1:H:492:LEU:HD22	1:H:577:ALA:HB2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:621:CYS:HB3	1:H:900:GLU:OE2	2.15	0.45
1:H:660:PHE:CE1	1:H:677:LEU:CG	2.83	0.45
1:H:955:ASP:HB3	1:H:959:VAL:CG2	2.46	0.45
1:H:1065:SER:O	1:H:1103:SER:HB2	2.17	0.45
1:J:175:ASP:CG	1:J:239:ASN:HD21	2.21	0.45
1:J:372:LEU:HD13	1:J:375:PHE:CE1	2.51	0.45
1:J:475:LEU:HD11	1:J:486:LEU:HG	1.98	0.45
1:L:148:LEU:HB2	1:L:282:HIS:HD2	1.82	0.45
1:M:336:ALA:O	1:M:340:ASN:HB2	2.16	0.45
1:M:816:LEU:HD13	1:M:846:SER:HB2	1.98	0.45
1:O:481:PRO:C	1:O:484:MET:HE2	2.37	0.45
1:O:497:LEU:HD23	1:O:497:LEU:HA	1.82	0.45
1:O:502:ARG:HD2	1:O:502:ARG:HA	1.87	0.45
1:O:659:VAL:O	1:O:676:LYS:CA	2.65	0.45
1:O:895:ARG:CA	1:O:911:PHE:HB3	2.47	0.45
1:O:995:LEU:HD23	1:O:995:LEU:O	2.18	0.45
1:O:1143:TYR:CE2	1:O:1186:ALA:HB2	2.52	0.45
1:O:1218:GLU:HB2	1:O:1237:ARG:CG	2.46	0.45
2:N:10:MET:CG	2:N:15:ARG:NH1	2.80	0.45
2:N:12:LYS:HD2	2:N:15:ARG:HB2	1.99	0.45
1:Q:620:PHE:HD2	1:Q:674:SER:HG	1.56	0.45
1:Q:705:PHE:CD1	1:Q:705:PHE:N	2.84	0.45
1:Q:748:GLU:HG2	1:Q:804:HIS:HD2	1.81	0.45
1:I:48:ILE:HG13	1:I:60:ARG:HH22	1.81	0.45
1:I:822:ARG:HE	1:I:834:TYR:HE1	1.65	0.45
1:I:929:VAL:CG2	1:I:969:VAL:HG23	2.47	0.45
1:I:987:VAL:N	1:I:993:ILE:HG13	2.31	0.45
1:I:1060:TYR:HB2	1:I:1068:ILE:CG2	2.47	0.45
1:I:1237:ARG:HB2	1:I:1241:PHE:HD2	1.81	0.45
1:K:156:GLY:HA2	1:K:159:TRP:HD1	1.76	0.45
1:K:579:LYS:O	1:K:582:GLN:HB3	2.16	0.45
1:K:1067:ASN:ND2	1:K:1091:GLN:HG2	2.32	0.45
1:H:1010:THR:HB	1:H:1011:PRO:CD	2.34	0.44
1:J:40:LEU:HD13	1:J:68:LYS:HE3	1.99	0.44
1:J:120:PHE:CE2	1:J:162:LEU:HB2	2.52	0.44
1:J:131:TYR:CD2	1:J:164:VAL:HG12	2.52	0.44
1:J:146:ASN:HB3	1:J:262:ILE:HG13	1.99	0.44
1:J:276:SER:OG	1:J:279:THR:OG1	2.28	0.44
1:J:482:GLU:O	1:J:486:LEU:N	2.44	0.44
1:J:518:LEU:HD13	1:J:646:ARG:HA	1.99	0.44
1:J:771:PHE:CZ	1:J:778:TYR:HD1	2.35	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:803:LEU:N	1:J:803:LEU:CD2	2.73	0.44
1:L:301:LEU:O	1:L:305:LEU:HB2	2.17	0.44
1:L:401:VAL:HA	1:L:404:LYS:CE	2.47	0.44
1:L:1022:ALA:C	1:L:1024:SER:N	2.70	0.44
1:M:61:LEU:C	1:M:65:LEU:CD2	2.76	0.44
1:M:107:ILE:HG23	1:M:110:ARG:HH21	1.81	0.44
1:M:463:LEU:CD2	1:M:465:GLN:HE21	2.25	0.44
1:M:676:LYS:HB2	1:M:678:TRP:HE3	1.81	0.44
1:M:1145:VAL:HG13	1:M:1181:CYS:HB2	2.00	0.44
1:O:1025:ALA:N	1:O:1045:HIS:O	2.50	0.44
2:G:44:LEU:HB3	2:G:49:LEU:O	2.16	0.44
1:Q:1067:ASN:O	1:Q:1080:VAL:HG21	2.17	0.44
1:I:384:ILE:HG23	1:I:385:LEU:HD22	1.99	0.44
1:I:483:ARG:NH1	1:I:484:MET:HE1	2.30	0.44
1:I:638:GLU:OE1	1:I:652:SER:OG	2.31	0.44
1:I:766:SER:HB3	1:I:780:VAL:HG23	1.99	0.44
1:I:824:LYS:HE2	1:I:831:ILE:HG12	1.99	0.44
1:I:968:ASN:ND2	1:I:1009:ILE:HG21	2.28	0.44
1:I:1020:ILE:O	1:I:1020:ILE:HG23	2.17	0.44
1:I:1106:TYR:CD2	1:I:1106:TYR:O	2.70	0.44
1:K:133:LYS:HA	1:K:136:GLN:NE2	2.32	0.44
1:K:183:LEU:O	1:K:184:LYS:HE2	2.17	0.44
1:K:761:LEU:HD22	1:K:804:HIS:NE2	2.33	0.44
1:K:812:THR:HG22	1:K:832:PHE:CD2	2.52	0.44
1:K:1046:ASP:O	1:K:1063:GLN:N	2.31	0.44
1:K:1237:ARG:HG3	1:K:1239:LEU:HB2	2.00	0.44
1:H:975:MET:CG	1:H:993:ILE:HG22	2.20	0.44
1:J:358:ASN:HA	1:J:366:ARG:HH12	1.82	0.44
1:J:524:TYR:CE2	1:J:543:LEU:HD12	2.52	0.44
1:J:536:GLU:N	1:J:536:GLU:CD	2.70	0.44
1:J:634:ASP:HB2	1:J:636:SER:H	1.81	0.44
1:J:1054:ILE:HG21	1:J:1069:LEU:HA	2.00	0.44
1:L:132:LEU:HD12	1:L:135:ARG:NH2	2.31	0.44
1:M:1203:LEU:HG	1:M:1204:ALA:H	1.83	0.44
1:O:414:GLN:NE2	1:O:419:THR:HG23	2.32	0.44
1:O:524:TYR:HB3	1:O:543:LEU:HD12	1.99	0.44
1:O:706:ILE:HG12	1:O:806:PHE:HE2	1.82	0.44
1:O:1110:GLN:NE2	1:O:1121:HIS:O	2.50	0.44
2:C:23:ASN:OD1	2:C:24:ILE:HD12	2.16	0.44
2:F:24:ILE:HA	2:F:28:TRP:HZ3	1.82	0.44
1:Q:39:ILE:HD12	1:Q:80:VAL:HG21	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:866:LYS:HD2	1:Q:876:LEU:HB2	0.54	0.44
1:Q:1239:LEU:C	1:Q:1241:PHE:H	2.21	0.44
1:I:1084:LEU:HD13	1:I:1105:LYS:CG	2.46	0.44
1:H:491:PHE:HA	1:H:576:GLU:HG2	2.00	0.44
1:H:782:CYS:SG	1:H:822:ARG:NH2	2.90	0.44
1:H:987:VAL:HG22	1:H:996:ILE:HG23	1.90	0.44
1:H:989:SER:OG	1:H:994:HIS:O	2.34	0.44
1:J:174:MET:HE2	1:J:178:ILE:HG13	2.00	0.44
1:J:627:SER:OG	1:J:644:LEU:HD11	2.17	0.44
1:J:845:LEU:HD22	1:J:887:LEU:HA	2.00	0.44
1:J:1019:LYS:CE	1:J:1053:PHE:HB3	2.48	0.44
1:L:160:VAL:O	1:L:164:VAL:HG23	2.17	0.44
1:L:641:ASP:O	1:L:650:ASP:N	2.50	0.44
1:L:728:ALA:HA	1:L:736:PHE:HD1	1.82	0.44
1:L:808:VAL:HG23	1:L:852:GLU:N	2.32	0.44
1:L:824:LYS:HA	1:L:830:LEU:O	2.17	0.44
1:M:64:THR:O	1:M:68:LYS:HG2	2.16	0.44
1:M:397:ASP:O	1:M:401:VAL:HG23	2.17	0.44
1:O:56:SER:HB3	1:O:60:ARG:NH1	2.33	0.44
2:B:33:ARG:NH1	2:B:36:MET:SD	2.90	0.44
2:D:95:ARG:NH1	2:D:103:ALA:HB1	2.32	0.44
1:Q:207:TRP:CE2	1:Q:224:ILE:HD13	2.52	0.44
1:Q:502:ARG:HB3	1:Q:516:ASN:N	2.32	0.44
1:Q:704:ARG:O	1:Q:719:LEU:CD1	2.59	0.44
1:I:668:THR:HG1	1:I:670:HIS:CE1	2.33	0.44
1:I:807:ASN:ND2	1:I:808:VAL:H	2.14	0.44
1:I:987:VAL:HA	1:I:1030:GLN:HG2	1.99	0.44
1:K:746:TRP:HD1	1:K:762:LYS:HD3	1.83	0.44
1:H:156:GLY:HA2	1:H:322:ARG:HH12	1.82	0.44
1:J:24:VAL:HA	1:J:54:ALA:HB1	1.98	0.44
1:J:107:ILE:HG23	1:I:142:ARG:NH2	2.33	0.44
1:J:112:ARG:HA	1:J:115:ASN:HB3	1.99	0.44
1:J:141:LEU:HD13	1:J:147:VAL:HG23	1.99	0.44
1:J:183:LEU:HD12	1:J:247:VAL:HA	1.99	0.44
1:J:382:PRO:HD2	1:J:385:LEU:HD12	2.00	0.44
1:J:406:HIS:ND1	1:J:412:GLU:HA	2.32	0.44
1:J:744:LEU:C	1:J:744:LEU:HD22	2.38	0.44
1:L:413:LYS:HG2	1:L:420:ILE:HG12	1.99	0.44
1:L:750:ASP:C	1:L:758:VAL:HG23	2.37	0.44
1:M:45:ILE:HA	1:M:48:ILE:HB	1.99	0.44
1:M:666:LEU:HD13	1:M:730:ILE:HD13	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:946:ARG:NH2	1:M:978:THR:HB	2.32	0.44
1:M:1018:CYS:SG	1:M:1031:ILE:HA	2.58	0.44
1:M:1102:VAL:HG22	1:M:1109:LEU:CD1	2.47	0.44
1:M:1185:ILE:HG12	1:M:1195:VAL:HG22	2.00	0.44
1:O:155:SER:HB3	1:O:157:LYS:CD	2.48	0.44
1:O:181:LEU:HD21	1:O:199:LEU:HD12	2.00	0.44
1:O:220:ARG:HA	1:O:220:ARG:CZ	2.47	0.44
1:O:837:TRP:CH2	1:O:845:LEU:O	2.70	0.44
2:B:72:HIS:O	2:B:75:LEU:HB2	2.17	0.44
1:Q:80:VAL:O	1:Q:83:ILE:HG23	2.18	0.44
1:Q:762:LYS:HE2	1:Q:768:ILE:HD12	1.98	0.44
1:Q:928:VAL:HG11	1:Q:1234:HIS:CD2	2.53	0.44
1:I:23:PHE:CD2	1:I:62:PHE:HZ	2.36	0.44
1:I:178:ILE:HG23	1:I:241:LEU:HD23	1.99	0.44
1:I:708:SER:HB3	1:I:715:VAL:HB	2.00	0.44
1:I:716:ALA:HB3	1:I:718:TYR:CZ	2.53	0.44
1:I:1108:SER:H	1:I:1130:ASN:HD22	1.58	0.44
1:K:326:ILE:HG21	1:K:349:LEU:HD13	1.99	0.44
1:K:386:LEU:HA	1:K:389:ILE:HG22	1.99	0.44
1:K:786:CYS:SG	1:K:822:ARG:HG3	2.57	0.44
1:K:927:GLN:OE1	1:K:968:ASN:HA	2.17	0.44
1:K:1166:PHE:HB3	1:K:1167:ARG:H	1.57	0.44
1:H:160:VAL:O	1:H:164:VAL:HG22	2.18	0.44
1:H:804:HIS:HA	1:H:814:LEU:O	2.17	0.44
1:H:1048:ALA:HB3	1:H:1061:LEU:O	2.18	0.44
1:J:439:LEU:HA	1:J:442:SER:HB2	2.00	0.44
1:J:1025:ALA:H	1:J:1045:HIS:HA	1.83	0.44
1:L:331:ILE:HG12	1:L:336:ALA:O	2.17	0.44
1:L:979:ARG:HH12	1:L:1020:ILE:CG2	2.30	0.44
1:M:646:ARG:HH12	1:M:648:GLU:CD	2.20	0.44
1:M:823:SER:OG	1:M:832:PHE:HB2	2.17	0.44
1:M:1085:GLU:HG2	1:M:1085:GLU:O	2.17	0.44
1:O:444:VAL:O	1:O:448:ASN:N	2.48	0.44
1:O:837:TRP:HE1	1:O:843:PRO:HG2	1.82	0.44
1:O:845:LEU:H	1:O:845:LEU:HG	1.41	0.44
1:O:946:ARG:NH1	1:O:964:CYS:SG	2.90	0.44
2:F:68:ARG:HA	2:F:71:GLN:HB2	1.99	0.44
2:G:17:HIS:NE2	2:G:106:LEU:HA	2.32	0.44
1:Q:12:TYR:CD2	1:Q:12:TYR:O	2.71	0.44
1:Q:149:ILE:O	1:Q:265:THR:HA	2.18	0.44
1:Q:1187:GLN:HB2	1:Q:1192:SER:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:633:THR:HG22	1:I:639:GLY:CA	2.45	0.44
1:I:989:SER:CA	1:I:993:ILE:CG2	2.96	0.44
1:I:1064:VAL:O	1:I:1064:VAL:HG22	2.18	0.44
1:K:29:CYS:HB2	1:K:61:LEU:HD11	2.00	0.44
1:K:37:LYS:O	1:K:37:LYS:HD3	2.17	0.44
1:K:804:HIS:HB3	1:K:814:LEU:O	2.17	0.44
1:H:148:LEU:HD13	1:H:266:THR:HG23	1.98	0.44
1:H:150:ASP:OD1	1:H:282:HIS:NE2	2.51	0.44
1:H:1083:GLN:HB2	1:H:1110:GLN:OE1	2.17	0.44
1:H:1148:ASP:HB2	1:H:1150:LYS:HZ3	1.82	0.44
1:J:107:ILE:CD1	1:J:110:ARG:HE	2.31	0.44
1:J:370:ASP:OD2	1:J:371:ARG:NH1	2.48	0.44
1:J:611:ARG:NE	1:J:613:ALA:HB2	2.33	0.44
1:J:743:ILE:CB	1:J:775:LEU:HD21	2.21	0.44
1:J:1047:THR:HG21	1:J:1062:LYS:HE3	1.99	0.44
1:L:1062:LYS:HG2	1:L:1066:PRO:HA	1.98	0.44
1:M:414:GLN:OE1	1:M:420:ILE:HA	2.17	0.44
1:M:637:LEU:HD12	1:M:660:PHE:CE1	2.52	0.44
1:O:373:SER:OG	1:O:435:ASN:ND2	2.49	0.44
1:O:623:ILE:HG23	1:O:644:LEU:HD11	2.00	0.44
1:O:684:CYS:HA	1:O:691:GLY:N	2.32	0.44
1:O:820:ASP:N	1:O:837:TRP:HA	2.33	0.44
1:Q:133:LYS:O	1:Q:136:GLN:NE2	2.50	0.44
1:Q:171:GLN:HB3	1:Q:176:PHE:HD1	1.82	0.44
1:Q:180:TRP:CE2	1:Q:243:VAL:HG21	2.53	0.44
1:Q:685:PRO:HD3	1:Q:690:SER:O	2.18	0.44
1:Q:866:LYS:CD	1:Q:876:LEU:HD12	2.47	0.44
1:I:51:SER:HB3	1:I:60:ARG:HH21	1.82	0.44
1:I:107:ILE:O	1:I:110:ARG:HG3	2.17	0.44
1:I:235:LYS:HA	1:I:238:GLU:HG3	2.00	0.44
1:I:414:GLN:HA	1:I:415:PRO:HD3	1.86	0.44
1:I:528:ILE:O	1:I:531:ASN:N	2.51	0.44
1:K:113:LEU:HD22	1:K:166:LEU:HD21	1.99	0.44
1:K:154:GLY:N	1:K:157:LYS:HZ1	2.15	0.44
1:K:253:TRP:O	1:K:257:ASN:N	2.51	0.44
1:K:270:GLN:HE21	1:K:270:GLN:HB2	1.61	0.44
1:K:428:GLU:HG2	1:K:432:LYS:NZ	2.31	0.44
1:K:896:SER:HA	1:K:910:LEU:HA	1.98	0.44
1:H:338:TRP:HA	1:H:341:TRP:HB3	2.00	0.44
1:H:617:HIS:H	1:H:635:VAL:HG11	1.83	0.44
1:H:640:GLU:CB	1:H:651:SER:O	2.62	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:771:PHE:CB	1:H:774:VAL:HB	2.48	0.44
1:H:928:VAL:HG21	1:H:1234:HIS:O	2.18	0.44
1:H:1226:TYR:CE1	1:H:1233:GLU:CG	3.00	0.44
1:J:196:LEU:O	1:J:199:LEU:HB3	2.18	0.44
1:J:293:THR:HG23	1:J:296:GLU:H	1.83	0.44
1:J:457:ASP:HB3	1:J:583:ARG:NE	2.31	0.44
1:J:935:ARG:HD2	1:J:1234:HIS:CE1	2.53	0.44
1:J:1219:ASN:O	1:J:1238:GLN:HG3	2.18	0.44
1:M:253:TRP:O	1:M:256:PHE:N	2.51	0.44
1:M:1068:ILE:HG13	1:M:1080:VAL:HG22	1.98	0.44
1:O:270:GLN:N	1:O:407:LYS:O	2.50	0.44
1:O:637:LEU:HD11	1:O:658:ALA:C	2.38	0.44
1:O:725:LEU:N	1:O:739:GLY:O	2.50	0.44
2:B:101:ASP:OD1	2:B:102:ALA:N	2.50	0.44
1:Q:129:GLN:HB3	1:Q:130:PRO:HD3	2.00	0.44
1:Q:275:LEU:O	1:Q:282:HIS:NE2	2.44	0.44
1:Q:981:ARG:HD3	1:Q:981:ARG:HA	1.44	0.44
1:I:239:ASN:OD1	1:I:239:ASN:N	2.50	0.44
1:I:383:THR:O	1:I:386:LEU:HG	2.18	0.44
1:I:630:ILE:HD11	1:I:644:LEU:HG	1.99	0.44
1:I:664:LYS:NZ	1:I:681:TRP:HH2	2.15	0.44
1:H:76:PHE:CE2	1:H:81:LEU:HD12	2.52	0.44
1:H:350:THR:HG21	1:H:433:LEU:HD12	2.00	0.44
1:H:631:LEU:HG	1:H:665:HIS:HE1	1.81	0.44
1:H:704:ARG:HG3	1:H:705:PHE:N	2.33	0.44
1:H:785:ASN:ND2	1:H:836:VAL:CG2	2.78	0.44
1:H:816:LEU:HD23	1:H:816:LEU:HA	1.92	0.44
1:H:1151:ASN:ND2	1:H:1195:VAL:HB	2.32	0.44
1:J:133:LYS:HA	1:J:136:GLN:OE1	2.18	0.44
1:J:267:ARG:HA	1:J:267:ARG:HD3	1.88	0.44
1:J:415:PRO:HA	1:J:418:SER:HA	2.00	0.44
1:J:725:LEU:HB2	1:J:741:VAL:CG2	2.47	0.44
1:J:814:LEU:HD23	1:J:823:SER:HA	1.99	0.44
1:J:850:GLN:H	1:J:894:LEU:HD11	1.83	0.44
1:J:996:ILE:O	1:J:998:PRO:HD3	2.17	0.44
1:L:757:HIS:CE1	1:L:771:PHE:HA	2.53	0.44
1:L:848:SER:HB3	1:L:855:GLN:NE2	2.33	0.44
1:L:1143:TYR:CE2	1:L:1153:LEU:HA	2.53	0.44
1:M:21:ASP:OD1	1:M:21:ASP:N	2.51	0.44
1:M:44:GLU:HB2	1:M:60:ARG:HH12	1.83	0.44
1:M:123:TYR:O	1:M:303:LYS:NZ	2.42	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:399:MET:O	1:M:402:VAL:HG12	2.18	0.44
1:M:663:GLN:HA	1:M:674:SER:HA	1.99	0.44
1:M:946:ARG:NE	1:M:978:THR:HG21	2.32	0.44
1:M:1108:SER:HG	1:M:1126:LEU:HG	1.82	0.44
1:O:396:SER:HB2	1:O:399:MET:SD	2.58	0.44
1:O:618:ASN:ND2	1:O:904:CYS:HB3	2.33	0.44
1:O:716:ALA:O	1:O:727:GLU:HA	2.18	0.44
1:O:1042:ASP:CB	1:O:1062:LYS:HD3	2.48	0.44
2:N:12:LYS:HA	2:N:15:ARG:HD3	1.99	0.44
2:E:15:ARG:O	2:E:19:ARG:HD3	2.18	0.44
2:F:95:ARG:NH2	2:F:100:LEU:HG	2.28	0.44
1:Q:498:GLU:CG	1:Q:519:GLN:HE22	2.31	0.44
1:Q:1060:TYR:O	1:Q:1061:LEU:HD23	2.18	0.44
1:I:247:VAL:HG21	1:I:264:LEU:HB2	2.00	0.44
1:I:298:LYS:HA	1:I:301:LEU:HG	1.99	0.44
1:I:368:MET:HA	1:I:371:ARG:HG3	1.99	0.44
1:I:472:GLY:HA2	1:I:487:PHE:CE1	2.53	0.44
1:K:112:ARG:HH22	1:K:115:ASN:ND2	2.13	0.44
1:K:274:PHE:CD2	1:K:275:LEU:HD22	2.53	0.44
1:K:369:PHE:HA	1:K:372:LEU:HD13	2.00	0.44
1:H:131:TYR:OH	1:H:163:ASP:OD2	2.22	0.44
1:H:518:LEU:HD11	1:H:646:ARG:HE	1.83	0.44
1:H:894:LEU:O	1:H:895:ARG:HD2	2.18	0.44
1:H:977:MET:CE	1:H:1018:CYS:CB	2.96	0.44
1:J:803:LEU:HD11	1:J:843:PRO:O	2.18	0.44
1:J:1153:LEU:HD12	1:J:1155:PHE:CD1	2.53	0.44
1:L:129:GLN:NE2	1:L:289:SER:OG	2.51	0.44
1:L:843:PRO:HA	1:L:858:GLU:C	2.37	0.44
1:L:849:LEU:HD13	1:L:854:VAL:HG12	2.00	0.44
1:L:1019:LYS:HE2	1:L:1058:ILE:HG23	2.00	0.44
1:L:1042:ASP:HB3	1:L:1062:LYS:HE3	1.99	0.44
1:M:123:TYR:HB3	1:M:304:TYR:OH	2.18	0.44
1:M:183:LEU:O	1:M:248:GLN:NE2	2.51	0.44
1:M:184:LYS:N	1:M:186:CYS:SG	2.91	0.44
1:M:372:LEU:HA	1:M:375:PHE:HE2	1.83	0.44
1:M:1136:LYS:HE3	1:M:1143:TYR:HE1	1.83	0.44
1:O:979:ARG:HG3	1:O:979:ARG:O	2.18	0.44
2:C:88:ASN:O	2:C:91:ILE:HB	2.18	0.44
2:D:46:VAL:HG22	2:D:50:ARG:HH21	1.82	0.44
2:E:61:ASN:OD1	2:E:62:MET:N	2.50	0.44
2:E:87:TYR:OH	2:E:110:ASP:HB2	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:673:GLY:CA	1:Q:682:PRO:O	2.57	0.44
1:Q:767:GLY:N	1:Q:781:VAL:O	2.45	0.44
1:I:406:HIS:HD1	1:I:412:GLU:HA	1.83	0.44
1:I:475:LEU:HB3	1:I:487:PHE:CE1	2.52	0.44
1:K:131:TYR:CD1	1:K:164:VAL:HG12	2.53	0.44
1:K:148:LEU:HD11	1:K:272:THR:HA	1.99	0.44
1:K:473:HIS:ND1	1:K:474:HIS:CD2	2.86	0.44
1:K:707:GLY:HA2	1:K:716:ALA:HA	1.99	0.44
1:K:815:ALA:O	1:K:821:GLU:HA	2.18	0.44
1:K:922:GLY:O	1:K:1240:LEU:HG	2.18	0.44
1:H:183:LEU:HA	1:H:186:CYS:SG	2.58	0.43
1:H:1109:LEU:CD2	1:H:1144:ILE:HG21	2.48	0.43
1:H:1217:VAL:HG23	1:H:1238:GLN:NE2	2.33	0.43
1:J:688:ARG:H	1:J:688:ARG:HG3	1.62	0.43
1:J:813:PRO:O	1:J:823:SER:CA	2.35	0.43
1:J:1010:THR:OG1	1:J:1052:GLN:HA	2.18	0.43
1:J:1226:TYR:CG	1:J:1233:GLU:HB3	2.53	0.43
1:L:82:ARG:HH21	1:L:93:LYS:NZ	2.16	0.43
1:L:117:ASN:HD21	1:L:120:PHE:HB3	1.82	0.43
1:L:127:ARG:NH1	1:L:129:GLN:H	2.16	0.43
1:L:396:SER:O	1:L:399:MET:HG3	2.18	0.43
1:L:783:THR:C	1:L:785:ASN:N	2.70	0.43
1:L:866:LYS:O	1:L:875:LEU:N	2.50	0.43
1:L:876:LEU:HD13	1:L:915:TYR:CD1	2.53	0.43
1:L:929:VAL:HG23	1:L:931:VAL:HG13	2.00	0.43
1:L:1091:GLN:HB3	1:L:1104:THR:O	2.18	0.43
1:M:190:GLU:O	1:M:193:LEU:HB3	2.18	0.43
1:M:190:GLU:O	1:M:194:GLU:OE1	2.37	0.43
1:M:399:MET:HA	1:M:402:VAL:HG12	2.00	0.43
1:M:833:LYS:HZ1	1:M:872:ARG:HA	1.83	0.43
1:O:146:ASN:OD1	1:O:280:THR:HG22	2.17	0.43
1:O:171:GLN:HG3	1:O:176:PHE:CD1	2.53	0.43
1:O:213:HIS:H	1:O:220:ARG:CD	2.30	0.43
1:O:936:SER:OG	1:O:948:ILE:HD11	2.18	0.43
2:C:65:LYS:HD2	2:C:66:ASP:N	2.33	0.43
2:D:82:ARG:NH1	2:D:89:LEU:HD23	2.33	0.43
2:E:105:LEU:O	2:E:108:SER:OG	2.28	0.43
1:Q:131:TYR:CD2	1:Q:164:VAL:HG12	2.52	0.43
1:Q:475:LEU:HD12	1:Q:487:PHE:CE1	2.53	0.43
1:Q:623:ILE:HB	1:Q:897:ASN:CB	2.47	0.43
1:Q:824:LYS:HD3	1:Q:824:LYS:HA	1.60	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:193:LEU:HD21	1:I:220:ARG:HE	1.82	0.43
1:I:1134:PHE:CE2	1:I:1186:ALA:HB3	2.53	0.43
1:I:1148:ASP:HB2	1:I:1150:LYS:HD2	2.00	0.43
1:K:36:PRO:O	1:K:38:SER:N	2.51	0.43
1:K:147:VAL:HB	1:K:263:LEU:CD1	2.48	0.43
1:K:449:ILE:N	1:K:450:PRO:CD	2.81	0.43
1:K:679:SER:OG	1:K:702:VAL:N	2.42	0.43
1:H:809:GLU:OE1	1:H:811:ASP:HB2	2.19	0.43
1:H:1143:TYR:CE2	1:H:1153:LEU:HD23	2.53	0.43
1:J:522:LYS:HD3	1:J:525:LYS:NZ	2.33	0.43
1:J:762:LYS:HD3	1:J:762:LYS:H	1.83	0.43
1:J:813:PRO:HG2	1:J:824:LYS:CA	2.43	0.43
1:J:1083:GLN:NE2	1:J:1101:ASP:CB	2.76	0.43
1:L:175:ASP:CG	1:L:239:ASN:HD21	2.21	0.43
1:L:443:ILE:HD12	1:L:446:HIS:ND1	2.33	0.43
1:L:625:LEU:H	1:L:669:LEU:HD13	1.82	0.43
1:L:746:TRP:N	1:L:762:LYS:HG2	2.33	0.43
1:L:923:ALA:O	1:L:926:LYS:HG3	2.18	0.43
1:M:131:TYR:CD1	1:M:164:VAL:HG12	2.53	0.43
1:M:388:LEU:HD11	1:M:449:ILE:HD12	2.00	0.43
1:M:440:HIS:CG	1:M:441:ARG:N	2.86	0.43
1:O:12:TYR:HE1	1:O:97:ARG:NH2	2.07	0.43
1:O:620:PHE:CD2	1:O:662:GLN:HA	2.53	0.43
1:O:704:ARG:O	1:O:719:LEU:HD12	2.17	0.43
1:O:746:TRP:N	1:O:762:LYS:HD3	2.33	0.43
2:N:26:VAL:HA	2:N:72:HIS:HD2	1.82	0.43
2:A:21:ASN:HA	2:A:24:ILE:HD13	1.99	0.43
2:D:15:ARG:O	2:D:19:ARG:HD3	2.17	0.43
2:D:32:GLU:HB2	2:D:36:MET:HE1	1.99	0.43
2:E:55:LEU:HB2	2:E:71:GLN:HG2	2.00	0.43
1:Q:152:VAL:HG13	1:Q:286:ASP:HB3	2.00	0.43
1:Q:411:VAL:HG23	1:Q:422:ILE:HG13	2.00	0.43
1:Q:522:LYS:HD2	1:Q:525:LYS:NZ	2.32	0.43
1:Q:618:ASN:HB3	1:Q:901:HIS:N	2.33	0.43
1:Q:825:THR:OG1	1:Q:830:LEU:HD12	2.18	0.43
1:Q:1061:LEU:CD2	1:Q:1091:GLN:HB2	2.48	0.43
1:I:127:ARG:HA	1:I:127:ARG:HD2	1.78	0.43
1:I:401:VAL:O	1:I:404:LYS:HG2	2.18	0.43
1:I:753:PHE:HB3	1:I:810:ASN:HD22	1.82	0.43
1:I:781:VAL:HG11	1:I:822:ARG:NH1	2.33	0.43
1:I:837:TRP:HB3	1:I:867:ARG:HH22	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:468:TYR:CE1	1:K:501:ILE:HD13	2.53	0.43
1:K:643:TYR:HE2	1:K:645:LEU:HB2	1.83	0.43
1:K:824:LYS:HB3	1:K:830:LEU:O	2.18	0.43
1:K:833:LYS:HG2	1:K:872:ARG:NH2	2.33	0.43
1:K:965:LEU:HB2	1:K:979:ARG:HB3	2.00	0.43
1:H:180:TRP:HE3	1:H:245:LEU:HD11	1.81	0.43
1:H:354:GLU:HA	1:H:430:LYS:NZ	2.33	0.43
1:H:459:ILE:HD13	1:H:497:LEU:HD11	2.00	0.43
1:H:660:PHE:C	1:H:676:LYS:CB	2.86	0.43
1:H:717:PHE:HD1	1:H:727:GLU:HG2	1.83	0.43
1:H:1029:GLU:OE1	1:H:1072:SER:HB3	2.18	0.43
1:J:156:GLY:HA2	1:J:159:TRP:CD1	2.53	0.43
1:J:246:ASN:O	1:J:248:GLN:NE2	2.51	0.43
1:J:373:SER:OG	1:J:435:ASN:ND2	2.52	0.43
1:J:532:ASP:CG	1:J:535:TYR:HB2	2.39	0.43
1:J:815:ALA:HB3	1:J:822:ARG:HB2	2.00	0.43
1:J:833:LYS:HD3	1:J:872:ARG:CG	2.49	0.43
1:J:888:LYS:HB2	1:J:897:ASN:HD22	1.84	0.43
1:J:903:GLU:O	1:J:904:CYS:HB2	2.18	0.43
1:J:1026:PHE:CE1	1:J:1041:ILE:HG23	2.53	0.43
1:J:1136:LYS:HE2	1:J:1193:TYR:CE1	2.50	0.43
1:L:448:ASN:O	1:L:452:THR:HG23	2.17	0.43
1:L:1009:ILE:HD13	1:L:1020:ILE:CG1	2.47	0.43
1:M:120:PHE:HD1	1:M:159:TRP:CE3	2.35	0.43
1:M:349:LEU:HD13	1:M:352:ILE:HD11	2.01	0.43
1:M:949:ALA:HA	1:M:956:GLU:HA	2.00	0.43
1:O:129:GLN:HB3	1:O:130:PRO:HD3	2.00	0.43
1:O:401:VAL:O	1:O:404:LYS:HG2	2.18	0.43
2:N:64:GLU:HA	2:N:67:VAL:HG23	2.01	0.43
2:A:70:GLU:HA	2:A:73:ARG:HG2	2.01	0.43
2:C:33:ARG:NH2	2:C:96:ASN:O	2.38	0.43
2:D:18:ILE:HD13	2:D:80:THR:HB	2.00	0.43
1:Q:175:ASP:CG	1:Q:239:ASN:HD21	2.22	0.43
1:Q:498:GLU:HG3	1:Q:519:GLN:HE22	1.83	0.43
1:I:13:LYS:HE2	1:I:13:LYS:HB2	1.72	0.43
1:I:157:LYS:HZ3	1:I:267:ARG:NH1	2.15	0.43
1:I:486:LEU:HD13	1:I:488:ARG:NH1	2.34	0.43
1:I:531:ASN:HB3	1:I:532:ASP:H	1.66	0.43
1:I:920:LEU:O	1:I:920:LEU:HD23	2.18	0.43
1:K:30:LYS:HG3	1:K:49:ILE:HA	1.99	0.43
1:K:34:ASP:N	1:K:34:ASP:OD1	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:305:LEU:HD13	1:K:332:ARG:HB2	1.99	0.43
1:K:382:PRO:HD2	1:K:385:LEU:HD12	1.99	0.43
1:K:833:LYS:NZ	1:K:870:ASP:H	2.16	0.43
1:H:656:ARG:HH22	1:H:680:LEU:HD12	1.81	0.43
1:H:677:LEU:C	1:H:679:SER:N	2.70	0.43
1:J:475:LEU:CD2	1:J:486:LEU:HB2	2.39	0.43
1:J:663:GLN:CB	1:J:674:SER:HB3	2.41	0.43
1:J:716:ALA:HB3	1:J:728:ALA:HB3	2.00	0.43
1:J:979:ARG:NH1	1:J:1020:ILE:HG23	2.33	0.43
1:J:990:LYS:HD3	1:J:1013:HIS:C	2.38	0.43
1:J:992:ARG:HA	1:J:992:ARG:HD2	1.86	0.43
1:J:1012:THR:HG1	1:J:1053:PHE:CB	2.26	0.43
1:J:1058:ILE:HD12	1:J:1058:ILE:N	2.33	0.43
1:J:1134:PHE:O	1:J:1142:GLU:HA	2.18	0.43
1:J:1218:GLU:HB2	1:J:1237:ARG:HB3	2.00	0.43
1:L:707:GLY:HA2	1:L:716:ALA:CB	2.47	0.43
1:L:1227:SER:O	1:L:1232:HIS:HB2	2.18	0.43
1:M:243:VAL:HG23	1:M:263:LEU:HD12	1.99	0.43
1:M:396:SER:O	1:M:400:VAL:HG23	2.18	0.43
1:M:522:LYS:HD3	1:M:525:LYS:HZ2	1.83	0.43
1:M:831:ILE:HG21	1:M:834:TYR:OH	2.19	0.43
1:O:678:TRP:HD1	1:O:680:LEU:HG	1.83	0.43
2:A:91:ILE:O	2:A:95:ARG:HG2	2.18	0.43
2:C:60:PHE:CE2	1:K:680:LEU:HD21	2.52	0.43
2:D:24:ILE:HG23	2:D:28:TRP:CD1	2.52	0.43
2:F:79:ILE:HG21	2:F:90:LEU:HD12	2.01	0.43
1:Q:463:LEU:HD13	1:Q:467:PHE:CE1	2.53	0.43
1:Q:970:TYR:CD1	1:Q:976:ASP:CG	2.91	0.43
1:Q:1099:MET:HG3	1:Q:1100:MET:HG3	1.99	0.43
1:I:64:THR:O	1:I:67:SER:HB2	2.17	0.43
1:I:190:GLU:O	1:I:194:GLU:OE1	2.37	0.43
1:I:499:GLN:NE2	1:I:500:LYS:HD3	2.33	0.43
1:I:752:GLU:CB	1:I:757:HIS:CB	2.78	0.43
1:K:120:PHE:CG	1:K:162:LEU:HD23	2.53	0.43
1:K:294:PRO:C	1:K:298:LYS:HZ2	2.22	0.43
1:K:446:HIS:CD2	1:K:474:HIS:CD2	3.06	0.43
1:K:1102:VAL:HG21	1:K:1142:GLU:OE1	2.17	0.43
1:H:216:ASN:HB3	1:H:219:LEU:CB	2.38	0.43
1:H:685:PRO:HD3	1:H:690:SER:O	2.17	0.43
1:H:704:ARG:O	1:H:718:TYR:HE1	1.99	0.43
1:H:768:ILE:HG22	1:H:780:VAL:HG22	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1010:THR:H	1:H:1019:LYS:HZ2	1.66	0.43
1:J:685:PRO:CD	1:J:690:SER:O	2.65	0.43
1:L:813:PRO:HD3	1:L:826:ALA:HB2	2.00	0.43
1:L:1110:GLN:CA	1:L:1110:GLN:HE21	2.31	0.43
1:M:129:GLN:NE2	1:M:133:LYS:HD2	2.33	0.43
1:M:136:GLN:CD	1:M:139:LEU:HD21	2.38	0.43
1:M:401:VAL:HA	1:M:404:LYS:HG2	1.99	0.43
1:O:104:ARG:O	1:O:107:ILE:HB	2.18	0.43
1:O:135:ARG:O	1:O:139:LEU:HG	2.17	0.43
1:O:383:THR:O	1:O:386:LEU:HG	2.19	0.43
1:O:446:HIS:O	1:O:450:PRO:HG2	2.18	0.43
1:O:468:TYR:CE2	1:O:501:ILE:HD13	2.53	0.43
1:O:970:TYR:HB3	1:O:975:MET:CG	2.49	0.43
2:D:82:ARG:HH12	2:D:89:LEU:HB3	1.83	0.43
2:F:10:MET:CG	2:F:87:TYR:HB2	2.49	0.43
1:Q:82:ARG:NH1	1:Q:89:MET:HB2	2.34	0.43
1:Q:616:LEU:HD12	1:Q:635:VAL:HB	1.99	0.43
1:I:27:PHE:HA	1:I:85:TYR:CE2	2.54	0.43
1:I:79:GLU:HG2	1:I:80:VAL:N	2.34	0.43
1:I:156:GLY:O	1:I:159:TRP:HB2	2.18	0.43
1:I:380:HIS:ND1	1:I:421:SER:HB3	2.34	0.43
1:I:980:GLU:HG3	1:I:984:LEU:HB2	2.00	0.43
1:I:989:SER:H	1:I:993:ILE:HB	1.84	0.43
1:I:999:ALA:CA	1:I:1030:GLN:HG2	2.45	0.43
1:I:1143:TYR:CD2	1:I:1153:LEU:HD21	2.54	0.43
1:K:222:HIS:O	1:K:225:GLN:HG3	2.19	0.43
1:K:446:HIS:O	1:K:450:PRO:CD	2.66	0.43
1:H:833:LYS:HE3	1:H:869:THR:HA	2.01	0.43
1:H:882:LEU:HD11	1:H:905:VAL:O	2.19	0.43
1:H:952:HIS:O	1:H:990:LYS:CE	2.60	0.43
1:H:1060:TYR:CE2	1:H:1070:VAL:HB	2.53	0.43
1:J:235:LYS:N	1:J:236:PRO:HD2	2.34	0.43
1:J:253:TRP:CE2	1:J:257:ASN:HB3	2.53	0.43
1:J:269:LYS:NZ	1:J:273:ASP:HB2	2.34	0.43
1:J:680:LEU:CD2	1:J:696:GLN:HB3	2.44	0.43
1:J:1044:ILE:HD12	1:J:1062:LYS:HD3	1.99	0.43
1:L:381:ILE:O	1:L:420:ILE:N	2.51	0.43
1:L:532:ASP:HB2	1:L:533:PRO:HD2	2.01	0.43
1:L:612:HIS:CE1	1:L:613:ALA:HB2	2.53	0.43
1:L:636:SER:O	1:L:638:GLU:HG2	2.19	0.43
1:L:720:ASN:HD21	1:L:726:PRO:HG3	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:746:TRP:CD2	1:L:762:LYS:HE3	2.54	0.43
1:L:1221:LYS:HG2	1:L:1237:ARG:HG2	2.01	0.43
1:M:155:SER:O	1:M:321:PRO:HG2	2.19	0.43
1:M:183:LEU:HD11	1:M:244:LEU:HD12	2.00	0.43
1:M:472:GLY:HA2	1:M:487:PHE:HE1	1.84	0.43
1:M:621:CYS:O	1:M:889:ILE:HD12	2.17	0.43
1:M:1136:LYS:NZ	1:M:1190:LYS:HB3	2.34	0.43
1:O:136:GLN:HA	1:O:139:LEU:HG	2.01	0.43
1:O:232:LEU:HD11	1:O:240:CYS:SG	2.58	0.43
1:O:522:LYS:O	1:O:526:PRO:CD	2.66	0.43
1:O:637:LEU:HA	1:O:660:PHE:CZ	2.54	0.43
1:O:948:ILE:HG23	1:O:957:ILE:HB	2.01	0.43
1:O:1025:ALA:HA	1:O:1047:THR:HG23	2.01	0.43
1:O:1131:PRO:HD2	1:O:1145:VAL:O	2.18	0.43
2:A:30:ASN:O	2:A:72:HIS:HE1	2.01	0.43
2:A:70:GLU:HA	2:A:73:ARG:HH11	1.83	0.43
2:E:16:GLU:O	2:E:20:LYS:HG2	2.18	0.43
2:E:53:GLN:NE2	2:E:54:ASP:OD1	2.52	0.43
1:Q:179:PHE:O	1:Q:242:LEU:HD12	2.18	0.43
1:Q:483:ARG:NE	1:Q:527:TYR:O	2.52	0.43
1:Q:620:PHE:HZ	1:Q:662:GLN:N	1.96	0.43
1:Q:756:SER:HA	1:Q:772:VAL:HB	2.01	0.43
1:Q:922:GLY:O	1:Q:940:SER:HB2	2.19	0.43
1:I:293:THR:HG22	1:I:296:GLU:HG2	2.00	0.43
1:I:483:ARG:HH21	1:I:527:TYR:C	2.22	0.43
1:I:753:PHE:O	1:I:753:PHE:CD1	2.72	0.43
1:I:833:LYS:HA	1:I:872:ARG:HH21	1.83	0.43
1:K:149:ILE:HG13	1:K:283:ILE:HB	2.00	0.43
1:K:968:ASN:OD1	1:K:977:MET:HG3	2.18	0.43
1:K:1136:LYS:N	1:K:1142:GLU:HA	2.29	0.43
1:H:30:LYS:HG3	1:H:49:ILE:HG23	1.99	0.43
1:H:758:VAL:HG23	1:H:772:VAL:HG22	2.00	0.43
1:H:856:LEU:HG	1:H:866:LYS:HD3	2.00	0.43
1:H:1151:ASN:HD21	1:H:1195:VAL:HB	1.84	0.43
1:H:1226:TYR:CD1	1:H:1233:GLU:HA	2.53	0.43
1:J:18:VAL:HA	1:J:168:TYR:CE2	2.54	0.43
1:J:120:PHE:CD1	1:J:159:TRP:HB3	2.54	0.43
1:J:152:VAL:HG21	1:J:425:ILE:CD1	2.49	0.43
1:J:329:GLU:HA	1:J:332:ARG:HG2	2.01	0.43
1:J:663:GLN:CB	1:J:674:SER:HA	2.48	0.43
1:J:988:ASP:OD1	1:J:992:ARG:NH1	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:81:LEU:HD21	1:L:88:LEU:HB2	2.01	0.43
1:L:1024:SER:C	1:L:1026:PHE:H	2.21	0.43
1:L:1048:ALA:HB1	1:L:1049:LEU:HD12	2.00	0.43
1:L:1194:LEU:HB3	1:L:1201:THR:HG21	2.01	0.43
1:L:1221:LYS:HE3	1:L:1237:ARG:HH21	1.83	0.43
1:O:145:LYS:HE2	1:O:281:THR:HG23	2.00	0.43
1:O:288:HIS:O	1:O:291:THR:HG22	2.18	0.43
1:O:715:VAL:HG13	1:O:736:PHE:CE2	2.54	0.43
1:O:934:LEU:HB2	1:O:950:TRP:CZ3	2.54	0.43
2:B:94:LEU:HD21	2:B:102:ALA:HB3	2.01	0.43
2:E:55:LEU:HB2	2:E:71:GLN:CG	2.48	0.43
1:Q:179:PHE:HB3	1:Q:202:GLN:OE1	2.19	0.43
1:Q:226:ALA:HB1	1:I:201:TYR:CZ	2.54	0.43
1:Q:825:THR:CB	1:Q:830:LEU:HA	2.47	0.43
1:Q:985:LEU:HD13	1:Q:1020:ILE:HD12	2.01	0.43
1:K:112:ARG:HH12	1:K:115:ASN:HD22	1.67	0.43
1:K:526:PRO:HG2	1:K:527:TYR:CE1	2.54	0.43
1:K:662:GLN:HB2	1:K:675:VAL:HG12	2.01	0.43
1:K:706:ILE:HG13	1:K:706:ILE:O	2.18	0.43
1:K:719:LEU:HG	1:K:751:GLN:HE21	1.84	0.43
1:K:1067:ASN:ND2	1:K:1091:GLN:CG	2.82	0.43
1:H:412:GLU:OE2	1:H:421:SER:HB2	2.19	0.43
1:H:617:HIS:O	1:H:635:VAL:CB	2.61	0.43
1:H:928:VAL:CG1	1:H:937:VAL:HG22	2.42	0.43
1:H:996:ILE:O	1:H:996:ILE:HG12	2.18	0.43
1:H:1109:LEU:HD22	1:H:1144:ILE:HD13	2.00	0.43
1:H:1192:SER:O	1:H:1195:VAL:HG12	2.18	0.43
1:J:35:MET:HE1	1:J:39:ILE:N	2.26	0.43
1:J:725:LEU:HB2	1:J:741:VAL:HG23	2.01	0.43
1:J:761:LEU:HD22	1:J:804:HIS:CG	2.51	0.43
1:J:946:ARG:NH1	1:J:967:PRO:HA	2.34	0.43
1:J:1102:VAL:HB	1:J:1103:SER:H	1.51	0.43
1:J:1146:GLY:N	1:J:1150:LYS:HE3	2.34	0.43
1:J:1216:ALA:HA	1:J:1237:ARG:CZ	2.49	0.43
1:L:608:ASN:HB3	1:L:908:TYR:O	2.18	0.43
1:L:1183:GLU:HB2	1:L:1196:ALA:HB3	2.00	0.43
1:M:33:GLN:HE22	2:A:47:GLN:NE2	2.17	0.43
1:M:492:LEU:HD12	1:M:495:ARG:HD3	2.01	0.43
1:M:761:LEU:CD1	1:M:804:HIS:CE1	2.96	0.43
1:O:21:ASP:OD1	1:O:22:ALA:N	2.47	0.43
1:O:369:PHE:CE1	1:O:405:LEU:HD13	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:637:LEU:HG	1:O:657:MET:HA	1.99	0.43
1:O:756:SER:O	1:O:778:TYR:OH	2.28	0.43
1:O:782:CYS:SG	1:O:785:ASN:ND2	2.92	0.43
1:O:847:VAL:HG11	1:O:888:LYS:O	2.19	0.43
2:B:37:GLU:O	2:B:40:GLN:HG2	2.17	0.43
2:F:59:PRO:HB3	2:F:67:VAL:HG13	2.00	0.43
1:Q:350:THR:HA	1:Q:353:ILE:CG2	2.43	0.43
1:Q:616:LEU:CD1	1:Q:635:VAL:HB	2.48	0.43
1:Q:688:ARG:O	1:Q:690:SER:N	2.50	0.43
1:I:135:ARG:HA	1:I:138:LEU:HD12	1.99	0.43
1:I:157:LYS:HB3	1:I:285:LEU:HD11	2.01	0.43
1:I:321:PRO:HA	1:I:324:LEU:HD12	2.01	0.43
1:I:367:LYS:O	1:I:371:ARG:HG2	2.19	0.43
1:I:1019:LYS:CD	1:I:1052:GLN:HE21	2.26	0.43
1:I:1130:ASN:N	1:I:1131:PRO:CD	2.81	0.43
1:K:181:LEU:HB3	1:K:244:LEU:HD13	2.01	0.43
1:K:757:HIS:NE2	1:K:773:GLN:OE1	2.51	0.43
1:K:1149:LEU:O	1:K:1149:LEU:HD23	2.19	0.43
1:H:518:LEU:HG	1:H:522:LYS:NZ	2.34	0.43
1:H:708:SER:O	1:H:709:TYR:HB2	2.19	0.43
1:H:818:VAL:HB	1:H:836:VAL:HG13	2.01	0.43
1:H:1078:LYS:NZ	1:H:1099:MET:SD	2.75	0.43
1:H:1143:TYR:HD1	1:H:1194:LEU:HD12	1.83	0.43
1:J:218:LYS:HA	1:J:221:ILE:HG22	1.99	0.43
1:J:771:PHE:CZ	1:J:778:TYR:CD1	3.07	0.43
1:J:981:ARG:H	1:J:981:ARG:HG2	1.55	0.43
1:L:12:TYR:O	1:L:15:ILE:HG12	2.17	0.43
1:L:113:LEU:CD2	1:L:165:CYS:SG	3.06	0.43
1:L:318:THR:HG22	1:L:323:ARG:NH2	2.34	0.43
1:L:683:ASP:N	1:L:692:GLY:H	2.14	0.43
1:L:805:VAL:HG11	1:L:848:SER:N	2.31	0.43
1:M:367:LYS:HD2	1:M:367:LYS:HA	1.77	0.43
1:M:423:PRO:O	1:M:427:LEU:HB2	2.18	0.43
1:M:609:GLU:O	1:M:907:ILE:HA	2.19	0.43
1:M:864:CYS:HB2	1:M:878:THR:OG1	2.19	0.43
1:M:911:PHE:O	1:M:914:VAL:HG23	2.18	0.43
1:M:946:ARG:CZ	1:M:978:THR:HB	2.49	0.43
1:M:1062:LYS:HB2	1:M:1066:PRO:CD	2.49	0.43
1:O:114:TYR:HD1	1:O:121:ALA:HB1	1.84	0.43
1:O:156:GLY:HA2	1:O:322:ARG:NH2	2.33	0.43
1:O:196:LEU:HD21	1:O:228:LEU:HD11	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:704:ARG:HD2	1:O:749:GLN:N	2.28	0.43
1:O:890:SER:HA	1:O:897:ASN:HA	1.99	0.43
2:A:58:LYS:HA	2:A:58:LYS:HD2	1.84	0.43
2:D:13:ARG:O	2:D:16:GLU:HG3	2.18	0.43
2:G:58:LYS:NZ	1:Q:656:ARG:HG3	2.33	0.43
1:Q:475:LEU:HB2	1:Q:487:PHE:CE1	2.54	0.43
1:Q:479:GLU:HG3	1:Q:480:HIS:H	1.83	0.43
1:Q:680:LEU:CD1	1:Q:696:GLN:OE1	2.60	0.43
1:Q:681:TRP:CG	1:Q:705:PHE:CE1	3.07	0.43
1:Q:716:ALA:HB1	1:Q:718:TYR:CE1	2.54	0.43
1:Q:854:VAL:HG13	1:Q:868:SER:CA	2.47	0.43
1:Q:1199:ASP:HA	1:Q:1221:LYS:HZ3	1.83	0.43
1:I:479:GLU:HB3	1:I:482:GLU:OE1	2.18	0.43
1:I:1189:ALA:O	1:I:1191:ILE:HG23	2.19	0.43
1:K:94:THR:O	1:K:98:GLN:HG2	2.18	0.43
1:K:725:LEU:HG	1:K:751:GLN:HE22	1.83	0.43
1:K:949:ALA:HB2	1:K:956:GLU:HG2	1.99	0.43
1:K:1021:ASN:HD21	1:K:1050:PRO:CD	2.32	0.43
1:H:122:LYS:NZ	1:O:275:LEU:O	2.41	0.43
1:H:331:ILE:HG12	1:H:336:ALA:O	2.19	0.43
1:H:495:ARG:HH22	1:H:549:ILE:HG21	1.83	0.43
1:H:954:ALA:HB1	1:H:976:ASP:CG	2.39	0.43
1:H:1028:ASP:OD1	1:H:1028:ASP:N	2.51	0.43
1:J:295:ASP:O	1:J:298:LYS:HG2	2.18	0.43
1:J:367:LYS:O	1:J:371:ARG:HG2	2.18	0.43
1:J:608:ASN:OD1	1:J:909:GLU:HA	2.19	0.43
1:J:1226:TYR:HA	1:J:1233:GLU:CB	2.49	0.43
1:L:287:HIS:CD2	1:L:289:SER:H	2.36	0.43
1:L:498:GLU:O	1:L:501:ILE:HG22	2.18	0.43
1:L:1109:LEU:C	1:L:1109:LEU:CD1	2.85	0.43
1:M:120:PHE:CE2	1:M:162:LEU:HD22	2.53	0.43
1:M:247:VAL:HG23	1:M:265:THR:O	2.18	0.43
1:M:372:LEU:HD13	1:M:375:PHE:CE2	2.54	0.43
1:O:120:PHE:HD1	1:O:159:TRP:CD2	2.36	0.43
1:O:194:GLU:O	1:O:198:LYS:HG2	2.19	0.43
1:O:381:ILE:N	1:O:420:ILE:O	2.37	0.43
1:O:928:VAL:HB	1:O:1225:ILE:HD13	2.00	0.43
1:O:935:ARG:NH2	1:O:1232:HIS:HB2	2.33	0.43
2:N:50:ARG:HA	2:N:53:GLN:HG2	2.00	0.43
2:E:11:PRO:HD2	2:E:14:HIS:CE1	2.54	0.43
2:E:73:ARG:HG3	2:E:74:ARG:N	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:26:VAL:HG21	2:F:73:ARG:HG3	2.00	0.43
1:Q:657:MET:N	1:Q:676:LYS:HE2	2.33	0.43
1:Q:807:ASN:HB3	1:Q:808:VAL:H	1.60	0.43
1:Q:966:GLU:HB2	1:Q:1007:SER:O	2.19	0.43
1:I:18:VAL:HG22	1:I:168:TYR:CE1	2.54	0.43
1:I:249:ASN:HA	1:I:270:GLN:HE22	1.84	0.43
1:I:449:ILE:N	1:I:450:PRO:CD	2.82	0.43
1:I:614:VAL:HG11	1:I:618:ASN:OD1	2.18	0.43
1:I:857:PRO:HB3	1:I:866:LYS:HA	2.00	0.43
1:I:1136:LYS:HE2	1:I:1190:LYS:HG2	2.01	0.43
1:K:152:VAL:HG12	1:K:155:SER:HB2	2.01	0.43
1:K:154:GLY:H	1:K:157:LYS:HZ1	1.66	0.43
1:K:1163:ILE:HG22	1:K:1165:VAL:H	1.84	0.43
1:H:243:VAL:HA	1:H:263:LEU:O	2.19	0.42
1:H:275:LEU:HB3	1:H:280:THR:OG1	2.19	0.42
1:H:298:LYS:HB2	1:H:298:LYS:HE3	1.78	0.42
1:J:631:LEU:HD13	1:J:633:THR:HG23	2.00	0.42
1:J:666:LEU:O	1:J:669:LEU:HD23	2.19	0.42
1:J:675:VAL:HG13	1:J:702:VAL:HG11	1.77	0.42
1:J:719:LEU:HD11	1:J:744:LEU:HD23	2.01	0.42
1:J:728:ALA:HA	1:J:735:ALA:HB2	2.01	0.42
1:J:1044:ILE:H	1:J:1044:ILE:HG13	1.61	0.42
1:J:1056:GLU:OE1	1:J:1056:GLU:HA	2.18	0.42
1:J:1154:LEU:CD2	1:J:1166:PHE:CZ	3.02	0.42
1:L:183:LEU:HD12	1:L:247:VAL:HG22	2.00	0.42
1:L:213:HIS:HB2	1:L:220:ARG:NH1	2.32	0.42
1:L:948:ILE:HB	1:L:957:ILE:CG1	2.48	0.42
1:L:992:ARG:HH11	1:L:995:LEU:HB2	1.84	0.42
1:M:535:TYR:O	1:M:539:VAL:HG13	2.19	0.42
1:M:684:CYS:HA	1:M:691:GLY:N	2.34	0.42
1:M:847:VAL:HG22	1:M:848:SER:H	1.84	0.42
1:M:897:ASN:OD1	1:M:909:GLU:HB2	2.19	0.42
1:O:101:MET:O	1:O:105:MET:HG2	2.19	0.42
1:O:120:PHE:CZ	1:O:163:ASP:HB2	2.51	0.42
1:O:663:GLN:HA	1:O:674:SER:HA	2.00	0.42
1:O:684:CYS:N	1:O:692:GLY:H	2.16	0.42
1:O:1012:THR:HG23	1:O:1019:LYS:NZ	2.34	0.42
1:O:1019:LYS:HG2	1:O:1029:GLU:HA	2.01	0.42
2:A:20:LYS:HG3	2:A:21:ASN:ND2	2.33	0.42
2:C:26:VAL:HA	2:C:72:HIS:CD2	2.45	0.42
2:D:37:GLU:HB3	2:D:97:ILE:HD11	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:11:PRO:HB2	2:E:13:ARG:HG3	2.00	0.42
2:E:17:HIS:HB2	2:E:109:VAL:HG21	2.01	0.42
2:E:95:ARG:HD3	2:E:100:LEU:HD22	2.01	0.42
2:F:22:LEU:HD12	2:F:76:LEU:HD22	2.01	0.42
2:F:27:GLU:HG2	2:F:28:TRP:N	2.35	0.42
2:F:90:LEU:O	2:F:93:ALA:HB3	2.19	0.42
1:Q:406:HIS:HB2	1:Q:411:VAL:HG13	2.01	0.42
1:I:639:GLY:H	1:I:655:LEU:HG	1.83	0.42
1:K:123:TYR:HB2	1:K:159:TRP:CZ3	2.54	0.42
1:K:424:SER:HA	1:K:427:LEU:HB3	2.01	0.42
1:K:447:TYR:HB2	1:K:478:ILE:HD13	2.00	0.42
1:K:483:ARG:O	1:K:489:MET:HE1	2.19	0.42
1:K:849:LEU:HD22	1:K:890:SER:CB	2.48	0.42
1:K:929:VAL:HG11	1:K:971:LEU:HD23	2.00	0.42
1:K:968:ASN:ND2	1:K:1010:THR:HB	2.30	0.42
1:H:225:GLN:O	1:H:229:ARG:HG3	2.19	0.42
1:H:833:LYS:HZ2	1:H:869:THR:HG22	1.85	0.42
1:H:929:VAL:HG13	1:H:931:VAL:H	1.83	0.42
1:H:1009:ILE:HD13	1:H:1018:CYS:SG	2.59	0.42
1:J:106:TYR:CZ	1:J:168:TYR:CD2	3.07	0.42
1:J:119:VAL:HA	1:J:122:LYS:NZ	2.34	0.42
1:J:213:HIS:HB2	1:J:220:ARG:NH1	2.35	0.42
1:J:1012:THR:HA	1:J:1053:PHE:HE2	1.64	0.42
1:J:1109:LEU:HD12	1:J:1142:GLU:OE1	2.19	0.42
1:L:350:THR:HA	1:L:429:LEU:HD13	2.01	0.42
1:L:631:LEU:HD12	1:L:640:GLU:O	2.19	0.42
1:L:978:THR:HG22	1:L:987:VAL:HG23	2.00	0.42
1:L:1129:ALA:O	1:L:1147:PHE:CE2	2.72	0.42
1:L:1183:GLU:O	1:L:1184:GLU:HG3	2.19	0.42
1:M:115:ASN:HA	1:M:118:GLN:NE2	2.34	0.42
1:M:187:ASN:HD21	1:M:248:GLN:HB3	1.83	0.42
1:M:201:TYR:CD1	1:M:205:PRO:HA	2.54	0.42
1:M:437:TYR:CE2	1:M:440:HIS:HB3	2.55	0.42
1:M:656:ARG:NH1	1:M:680:LEU:HB2	2.34	0.42
1:M:747:ASP:OD2	1:M:763:THR:HA	2.19	0.42
1:M:761:LEU:HD23	1:M:761:LEU:N	2.34	0.42
1:M:762:LYS:NZ	1:M:768:ILE:HB	2.31	0.42
1:M:809:GLU:OE1	1:M:811:ASP:HB2	2.18	0.42
1:M:888:LYS:HE3	1:M:901:HIS:CE1	2.54	0.42
1:O:146:ASN:HA	1:O:262:ILE:O	2.18	0.42
2:G:82:ARG:HG2	1:Q:87:PHE:HE2	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:86:ALA:O	2:G:90:LEU:N	2.42	0.42
1:Q:13:LYS:HE2	1:Q:66:LEU:HA	2.00	0.42
1:Q:183:LEU:HD11	1:Q:244:LEU:HD23	2.00	0.42
1:Q:681:TRP:CG	1:Q:681:TRP:O	2.70	0.42
1:Q:748:GLU:OE2	1:Q:761:LEU:HD13	2.19	0.42
1:Q:897:ASN:HB3	1:Q:898:VAL:H	1.50	0.42
1:I:201:TYR:CE1	1:I:205:PRO:HB3	2.54	0.42
1:I:410:LEU:HD12	1:I:410:LEU:O	2.18	0.42
1:I:476:LYS:NZ	1:I:526:PRO:O	2.51	0.42
1:I:638:GLU:HA	1:I:653:ASP:O	2.19	0.42
1:I:783:THR:HG22	1:I:818:VAL:HG22	2.01	0.42
1:I:816:LEU:HD23	1:I:821:GLU:HG2	2.01	0.42
1:I:1021:ASN:N	1:I:1021:ASN:ND2	2.66	0.42
1:I:1071:ALA:HB3	1:I:1076:ALA:HB3	2.00	0.42
1:I:1187:GLN:HE22	1:I:1194:LEU:HD12	1.84	0.42
1:K:782:CYS:O	1:K:787:THR:HA	2.19	0.42
1:K:930:HIS:CE1	1:K:1226:TYR:O	2.72	0.42
1:K:978:THR:OG1	1:K:986:ALA:HB3	2.19	0.42
1:H:85:TYR:HE1	2:F:81:GLN:HE22	1.66	0.42
1:H:129:GLN:HB3	1:H:130:PRO:HD3	2.01	0.42
1:H:317:LEU:HD23	1:H:317:LEU:HA	1.80	0.42
1:H:351:THR:O	1:H:355:SER:N	2.43	0.42
1:H:749:GLN:HG2	1:H:760:VAL:HG13	2.01	0.42
1:J:37:LYS:HZ3	1:J:42:LYS:N	2.17	0.42
1:J:385:LEU:HA	1:J:388:LEU:HD12	2.02	0.42
1:J:479:GLU:HG3	1:J:480:HIS:H	1.84	0.42
1:J:656:ARG:HB2	1:J:676:LYS:NZ	2.34	0.42
1:J:829:LEU:H	1:J:829:LEU:CD2	2.18	0.42
1:J:858:GLU:HG2	1:J:888:LYS:NZ	2.34	0.42
1:J:899:SER:N	1:J:907:ILE:O	2.52	0.42
1:J:935:ARG:NH2	1:J:1232:HIS:HB2	2.26	0.42
1:J:1232:HIS:HA	1:J:1246:LEU:O	2.19	0.42
1:L:113:LEU:CD2	1:L:166:LEU:CD2	2.97	0.42
1:L:145:LYS:HE3	1:L:279:THR:O	2.19	0.42
1:L:375:PHE:CE2	1:L:381:ILE:HD12	2.53	0.42
1:L:539:VAL:O	1:L:543:LEU:HG	2.20	0.42
1:L:619:ASP:N	1:L:634:ASP:OD1	2.47	0.42
1:M:129:GLN:HB3	1:M:130:PRO:HD3	2.01	0.42
1:O:83:ILE:HG13	1:O:84:ASN:H	1.84	0.42
1:O:178:ILE:H	1:O:178:ILE:HD12	1.83	0.42
1:O:331:ILE:HD13	1:O:337:THR:HA	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:480:HIS:HA	1:O:483:ARG:NH1	2.33	0.42
1:O:702:VAL:HG22	1:O:721:GLU:HG3	2.01	0.42
1:O:1029:GLU:HG2	1:O:1038:GLY:H	1.84	0.42
1:O:1084:LEU:HD22	1:O:1105:LYS:HB3	2.01	0.42
2:N:55:LEU:CD1	2:N:58:LYS:H	2.33	0.42
2:E:46:VAL:HA	2:E:49:LEU:HG	2.01	0.42
2:G:13:ARG:O	2:G:16:GLU:HG3	2.19	0.42
2:G:48:MET:HE2	1:Q:26:ASN:O	2.19	0.42
1:Q:483:ARG:NH2	1:Q:528:ILE:HA	2.34	0.42
1:Q:532:ASP:N	1:Q:532:ASP:OD1	2.52	0.42
1:Q:666:LEU:CD1	1:Q:671:CYS:HB2	2.49	0.42
1:Q:718:TYR:HB2	1:Q:726:PRO:O	2.19	0.42
1:Q:891:ASP:HB2	1:Q:911:PHE:HZ	1.83	0.42
1:I:153:LEU:HD21	1:I:356:SER:HB2	2.01	0.42
1:I:218:LYS:HA	1:I:221:ILE:HG22	2.02	0.42
1:I:483:ARG:HH11	1:I:484:MET:CE	2.32	0.42
1:I:1058:ILE:HD12	1:I:1093:ASN:HB2	2.01	0.42
1:I:1242:SER:O	1:I:1242:SER:OG	2.35	0.42
1:K:16:LEU:CD2	1:K:65:LEU:HD21	2.45	0.42
1:K:165:CYS:O	1:K:171:GLN:NE2	2.52	0.42
1:K:706:ILE:HB	1:K:709:TYR:OH	2.19	0.42
1:K:910:LEU:O	1:K:914:VAL:N	2.49	0.42
1:K:987:VAL:HG12	1:K:989:SER:OG	2.19	0.42
1:K:1112:GLY:HA2	1:K:1120:ASP:N	2.34	0.42
1:K:1187:GLN:HB3	1:K:1192:SER:O	2.20	0.42
1:H:209:SER:HB2	1:H:210:ARG:NH1	2.35	0.42
1:H:445:ASP:O	1:H:449:ILE:HG13	2.19	0.42
1:H:480:HIS:HB2	1:H:531:ASN:CA	2.48	0.42
1:H:519:GLN:H	1:H:519:GLN:HG3	1.66	0.42
1:H:948:ILE:HB	1:H:949:ALA:H	1.69	0.42
1:J:199:LEU:HD22	1:J:228:LEU:HD13	2.00	0.42
1:J:284:SER:HB2	1:J:286:ASP:OD1	2.19	0.42
1:J:537:ARG:HD2	1:J:538:LEU:N	2.34	0.42
1:J:722:ASP:O	1:J:744:LEU:CG	2.61	0.42
1:J:830:LEU:N	1:J:830:LEU:CD2	2.73	0.42
1:J:844:GLY:HA3	1:J:858:GLU:OE1	2.20	0.42
1:J:896:SER:HB2	1:J:910:LEU:HD12	2.01	0.42
1:J:903:GLU:O	1:J:905:VAL:HG23	2.20	0.42
1:J:969:VAL:HG22	1:J:970:TYR:N	2.34	0.42
1:J:1045:HIS:CD2	1:J:1045:HIS:N	2.78	0.42
1:J:1233:GLU:OE2	1:J:1246:LEU:HB3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:70:GLU:CD	1:L:74:GLN:HE21	2.22	0.42
1:M:166:LEU:C	1:M:171:GLN:HE22	2.22	0.42
1:M:617:HIS:HA	1:M:904:CYS:HA	2.01	0.42
1:M:750:ASP:HB3	1:M:806:PHE:HE2	1.84	0.42
1:M:854:VAL:HA	1:M:868:SER:HA	2.02	0.42
1:M:1067:ASN:OD1	1:M:1083:GLN:HG2	2.19	0.42
1:O:98:GLN:OE1	1:O:98:GLN:N	2.41	0.42
1:O:200:LEU:O	1:O:204:ASP:N	2.36	0.42
1:O:239:ASN:OD1	1:O:239:ASN:N	2.52	0.42
1:O:896:SER:N	1:O:911:PHE:H	2.17	0.42
2:A:78:LYS:HA	2:A:78:LYS:HD2	1.78	0.42
2:B:88:ASN:O	2:B:91:ILE:HB	2.18	0.42
2:B:91:ILE:HG23	2:B:95:ARG:NH1	2.34	0.42
2:D:51:ASN:OD1	2:D:52:THR:N	2.52	0.42
1:Q:740:ASP:C	1:Q:775:LEU:HD22	2.39	0.42
1:I:367:LYS:HA	1:I:367:LYS:HD2	1.74	0.42
1:I:1111:GLU:O	1:I:1120:ASP:N	2.52	0.42
1:K:133:LYS:CE	1:K:283:ILE:HG23	2.49	0.42
1:H:134:LEU:HD21	1:H:283:ILE:HG21	2.00	0.42
1:H:166:LEU:HD13	1:H:171:GLN:HE22	1.84	0.42
1:H:702:VAL:HA	1:H:720:ASN:HA	2.01	0.42
1:H:866:LYS:NZ	1:H:878:THR:HG21	2.35	0.42
1:H:866:LYS:O	1:H:874:LEU:HA	2.20	0.42
1:H:929:VAL:HG11	1:H:931:VAL:HG22	1.96	0.42
1:H:1148:ASP:O	1:H:1149:LEU:HB2	2.19	0.42
1:J:171:GLN:HG2	1:J:176:PHE:CE2	2.54	0.42
1:J:369:PHE:O	1:J:372:LEU:HB2	2.19	0.42
1:J:1047:THR:HB	1:J:1062:LYS:CA	2.47	0.42
1:J:1188:LYS:N	1:J:1230:GLU:OE2	2.49	0.42
1:L:155:SER:C	1:L:321:PRO:HG2	2.40	0.42
1:L:179:PHE:CE2	1:L:240:CYS:HB2	2.54	0.42
1:L:663:GLN:HA	1:L:673:GLY:O	2.19	0.42
1:M:207:TRP:HZ2	1:M:211:SER:HG	1.62	0.42
1:M:321:PRO:O	1:M:324:LEU:HG	2.18	0.42
1:M:503:HIS:HA	1:M:516:ASN:CG	2.40	0.42
1:M:608:ASN:HD22	1:M:909:GLU:HA	1.84	0.42
1:M:750:ASP:O	1:M:758:VAL:HG13	2.19	0.42
1:M:833:LYS:HZ3	1:M:869:THR:HG22	1.83	0.42
1:O:153:LEU:CB	1:O:267:ARG:HE	2.31	0.42
1:O:456:ASP:N	1:O:456:ASP:OD1	2.51	0.42
1:O:635:VAL:HG13	1:O:659:VAL:HG13	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:771:PHE:HA	1:O:778:TYR:CE2	2.54	0.42
1:O:809:GLU:HG3	1:O:811:ASP:OD1	2.19	0.42
2:C:61:ASN:OD1	2:C:62:MET:N	2.50	0.42
2:F:32:GLU:OE2	2:F:68:ARG:NH1	2.52	0.42
1:Q:35:MET:CE	1:Q:40:LEU:HB3	2.48	0.42
1:Q:229:ARG:O	1:Q:233:LYS:HE2	2.20	0.42
1:Q:684:CYS:CB	1:Q:685:PRO:CD	2.92	0.42
1:Q:783:THR:HG21	1:Q:817:ASP:HB2	2.02	0.42
1:Q:854:VAL:HG22	1:Q:868:SER:CA	2.49	0.42
1:Q:862:ILE:O	1:Q:862:ILE:CG1	2.67	0.42
1:I:244:LEU:HB3	1:I:247:VAL:HG22	2.00	0.42
1:I:385:LEU:HD13	1:I:388:LEU:HD12	2.00	0.42
1:I:704:ARG:NH2	1:I:804:HIS:O	2.52	0.42
1:I:824:LYS:HG2	1:I:831:ILE:HA	2.01	0.42
1:K:233:LYS:H	1:K:233:LYS:HG2	1.67	0.42
1:K:251:LYS:HE3	1:K:251:LYS:HB3	1.91	0.42
1:K:475:LEU:HD21	1:K:482:GLU:O	2.19	0.42
1:K:703:LYS:HZ1	1:K:746:TRP:HB2	1.84	0.42
1:K:824:LYS:HG2	1:K:831:ILE:HG12	2.02	0.42
1:K:883:ILE:HG22	1:K:884:VAL:H	1.85	0.42
1:K:1065:SER:OG	1:K:1084:LEU:N	2.42	0.42
1:H:101:MET:N	1:H:104:ARG:HH21	2.16	0.42
1:H:190:GLU:OE2	1:H:191:THR:OG1	2.37	0.42
1:H:823:SER:OG	1:H:832:PHE:HB2	2.20	0.42
1:H:1226:TYR:OH	1:H:1233:GLU:HG2	2.19	0.42
1:J:162:LEU:HA	1:J:165:CYS:SG	2.60	0.42
1:J:320:ASN:O	1:J:324:LEU:HD13	2.20	0.42
1:J:371:ARG:NH2	1:J:435:ASN:OD1	2.52	0.42
1:J:437:TYR:CE1	1:J:439:LEU:HB2	2.54	0.42
1:J:476:LYS:HD3	1:J:527:TYR:CE1	2.54	0.42
1:J:643:TYR:HB3	1:J:647:ASP:H	1.83	0.42
1:J:749:GLN:HB3	1:J:759:PRO:O	2.18	0.42
1:J:1052:GLN:N	1:J:1060:TYR:HE1	2.18	0.42
1:J:1147:PHE:O	1:J:1180:ILE:HG12	2.20	0.42
1:L:115:ASN:ND2	1:K:259:SER:HA	2.35	0.42
1:L:203:ILE:HD13	1:L:203:ILE:HA	1.91	0.42
1:L:360:LEU:HD12	1:L:365:TYR:CD2	2.54	0.42
1:L:750:ASP:O	1:L:759:PRO:HD2	2.19	0.42
1:M:405:LEU:HG	1:M:410:LEU:HB2	2.01	0.42
1:M:470:HIS:O	1:M:474:HIS:ND1	2.53	0.42
1:O:83:ILE:HG13	1:O:84:ASN:N	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:664:LYS:HZ2	1:O:681:TRP:HH2	1.68	0.42
1:O:822:ARG:HB2	1:O:837:TRP:HB2	2.01	0.42
2:N:17:HIS:CE1	2:N:106:LEU:HD12	2.55	0.42
2:N:87:TYR:O	2:N:91:ILE:N	2.45	0.42
2:A:37:GLU:O	2:A:41:GLN:HB2	2.19	0.42
2:A:64:GLU:OE2	2:A:68:ARG:HG2	2.19	0.42
2:F:31:TYR:CE2	2:F:71:GLN:HB3	2.54	0.42
1:Q:79:GLU:HG2	1:Q:80:VAL:N	2.35	0.42
1:Q:188:SER:HB3	1:Q:191:THR:HG23	2.02	0.42
1:Q:623:ILE:HG13	1:Q:892:PRO:HG2	2.01	0.42
1:Q:858:GLU:HG2	1:Q:862:ILE:HA	2.01	0.42
1:Q:1063:GLN:O	1:Q:1105:LYS:NZ	2.46	0.42
1:Q:1145:VAL:HG11	1:Q:1181:CYS:O	2.20	0.42
1:Q:1221:LYS:HD2	1:Q:1237:ARG:NE	2.34	0.42
1:I:287:HIS:HB3	1:I:290:MET:CG	2.49	0.42
1:I:867:ARG:HA	1:I:875:LEU:H	1.83	0.42
1:I:898:VAL:HG22	1:I:908:TYR:CD1	2.54	0.42
1:I:984:LEU:HD23	1:I:984:LEU:HA	1.82	0.42
1:K:220:ARG:CZ	1:K:220:ARG:HA	2.50	0.42
1:H:181:LEU:HD23	1:H:181:LEU:HA	1.84	0.42
1:H:264:LEU:HD23	1:H:264:LEU:H	1.84	0.42
1:H:486:LEU:HD13	1:H:488:ARG:CZ	2.49	0.42
1:H:630:ILE:HG21	1:H:632:LEU:CD2	2.40	0.42
1:H:882:LEU:HD12	1:H:901:HIS:O	2.19	0.42
1:H:977:MET:HA	1:H:987:VAL:CG1	2.48	0.42
1:H:1143:TYR:CD1	1:H:1194:LEU:HD12	2.55	0.42
1:J:482:GLU:O	1:J:486:LEU:CB	2.55	0.42
1:J:1067:ASN:HD21	1:J:1083:GLN:NE2	2.18	0.42
1:L:230:ARG:HE	1:L:231:LEU:HD22	1.84	0.42
1:L:342:LYS:HE2	1:L:343:HIS:NE2	2.34	0.42
1:L:621:CYS:SG	1:L:622:LEU:N	2.93	0.42
1:L:642:THR:HG22	1:L:649:SER:HA	2.01	0.42
1:L:688:ARG:HB2	1:L:688:ARG:HH11	1.81	0.42
1:M:82:ARG:NH1	1:M:89:MET:SD	2.93	0.42
1:M:847:VAL:HG12	1:M:856:LEU:HD22	2.01	0.42
1:O:56:SER:CB	1:O:60:ARG:NH1	2.82	0.42
1:O:63:TRP:HZ3	1:O:128:LEU:HB2	1.85	0.42
1:O:805:VAL:HG21	1:O:848:SER:H	1.84	0.42
1:O:906:ASP:O	1:O:907:ILE:HD13	2.20	0.42
1:O:1090:LEU:O	1:O:1103:SER:HA	2.20	0.42
2:C:76:LEU:O	2:C:79:ILE:HG22	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:55:LEU:HD12	2:G:59:PRO:HG3	2.02	0.42
1:Q:180:TRP:O	1:Q:181:LEU:HD23	2.19	0.42
1:Q:833:LYS:HE2	1:Q:870:ASP:H	1.85	0.42
1:Q:1090:LEU:HD12	1:Q:1132:SER:HB2	2.02	0.42
1:I:35:MET:HG3	1:I:37:LYS:HD3	2.00	0.42
1:I:115:ASN:HA	1:I:118:GLN:HE21	1.84	0.42
1:I:483:ARG:O	1:I:489:MET:HE1	2.19	0.42
1:I:670:HIS:O	1:I:685:PRO:HA	2.20	0.42
1:I:756:SER:HB3	1:I:773:GLN:CB	2.50	0.42
1:K:350:THR:HA	1:K:353:ILE:HG12	2.01	0.42
1:K:612:HIS:ND1	1:K:612:HIS:O	2.53	0.42
1:H:174:MET:O	1:H:175:ASP:OD1	2.38	0.42
1:H:617:HIS:C	1:H:635:VAL:HB	2.40	0.42
1:H:900:GLU:HB2	1:H:901:HIS:H	1.45	0.42
1:H:1226:TYR:OH	1:H:1233:GLU:CG	2.67	0.42
1:J:35:MET:HE1	1:J:40:LEU:H	1.85	0.42
1:J:663:GLN:CA	1:J:674:SER:HA	2.50	0.42
1:J:1091:GLN:NE2	1:J:1091:GLN:N	2.67	0.42
1:L:129:GLN:HB3	1:L:130:PRO:HD3	2.00	0.42
1:L:381:ILE:C	1:L:419:THR:HG1	2.23	0.42
1:L:1065:SER:C	1:L:1067:ASN:H	2.23	0.42
1:L:1120:ASP:OD1	1:L:1121:HIS:N	2.53	0.42
1:M:153:LEU:HA	1:M:267:ARG:CZ	2.50	0.42
1:M:472:GLY:HA2	1:M:487:PHE:CE1	2.55	0.42
1:O:350:THR:HG22	1:O:429:LEU:HG	2.02	0.42
1:O:822:ARG:HH22	1:O:846:SER:HG	1.54	0.42
2:D:36:MET:O	2:D:39:VAL:HG12	2.20	0.42
2:D:43:ILE:HG21	2:D:79:ILE:HD13	2.02	0.42
2:F:56:ASN:ND2	2:F:59:PRO:HD3	2.35	0.42
1:Q:148:LEU:HD23	1:Q:282:HIS:CE1	2.54	0.42
1:Q:969:VAL:HG21	1:Q:1018:CYS:SG	2.58	0.42
1:Q:1094:ASP:HA	1:Q:1102:VAL:HG23	2.01	0.42
1:I:36:PRO:HB3	1:I:75:LYS:NZ	2.35	0.42
1:I:620:PHE:HD1	1:I:634:ASP:OD2	2.02	0.42
1:I:704:ARG:O	1:I:705:PHE:HD1	2.03	0.42
1:K:914:VAL:HA	1:K:917:TYR:HD2	1.85	0.42
1:H:13:LYS:NZ	1:H:68:LYS:O	2.43	0.42
1:H:166:LEU:HD13	1:H:171:GLN:NE2	2.35	0.42
1:H:381:ILE:HD13	1:H:386:LEU:HD12	2.02	0.42
1:H:658:ALA:HB2	1:H:678:TRP:CD1	2.55	0.42
1:H:708:SER:N	1:H:717:PHE:HD2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:728:ALA:HA	1:H:736:PHE:H	1.84	0.42
1:H:762:LYS:HB2	1:H:764:MET:HG2	2.02	0.42
1:H:954:ALA:CA	1:H:990:LYS:NZ	2.81	0.42
1:J:114:TYR:OH	1:J:166:LEU:HD22	2.19	0.42
1:J:273:ASP:HB3	1:J:407:LYS:HZ3	1.84	0.42
1:J:624:ALA:HB3	1:J:627:SER:HA	2.02	0.42
1:J:656:ARG:HH22	1:J:675:VAL:C	2.22	0.42
1:J:722:ASP:N	1:J:744:LEU:HD11	2.35	0.42
1:J:734:VAL:CG2	1:J:737:ILE:HA	2.48	0.42
1:J:833:LYS:HD3	1:J:872:ARG:HG3	2.02	0.42
1:J:1000:ILE:HG13	1:J:1000:ILE:O	2.20	0.42
1:J:1155:PHE:CZ	1:J:1163:ILE:HB	2.55	0.42
1:L:26:ASN:HB2	2:B:81:GLN:HE21	1.84	0.42
1:L:484:MET:HG2	1:L:535:TYR:CE2	2.55	0.42
1:L:681:TRP:HZ2	1:L:705:PHE:HB3	1.76	0.42
1:L:704:ARG:CZ	1:L:746:TRP:HB3	2.50	0.42
1:L:930:HIS:NE2	1:L:1225:ILE:HG22	2.34	0.42
1:L:961:THR:HG21	1:L:988:ASP:OD1	2.19	0.42
1:M:175:ASP:O	1:M:177:LYS:HG2	2.20	0.42
1:M:460:PRO:HG2	1:M:462:TYR:CE1	2.55	0.42
1:M:847:VAL:HG12	1:M:856:LEU:HB3	2.02	0.42
1:M:939:GLY:CA	1:M:947:GLU:N	2.83	0.42
1:M:1238:GLN:C	1:M:1240:LEU:N	2.73	0.42
1:O:92:ILE:O	1:O:95:GLU:HG2	2.19	0.42
1:O:247:VAL:HG21	1:O:264:LEU:HB2	2.02	0.42
1:O:329:GLU:O	1:O:332:ARG:HG2	2.20	0.42
1:O:371:ARG:HB3	1:O:389:ILE:HG22	2.01	0.42
1:O:388:LEU:HD11	1:O:449:ILE:HD12	2.02	0.42
1:O:483:ARG:HE	1:O:531:ASN:CB	2.06	0.42
1:O:806:PHE:CE1	1:O:813:PRO:HD3	2.54	0.42
1:O:1027:ASN:HD21	1:O:1047:THR:HG21	1.84	0.42
2:N:31:TYR:HA	2:N:72:HIS:CE1	2.55	0.42
2:F:31:TYR:CE1	2:F:72:HIS:HA	2.54	0.42
1:Q:661:ASN:HB3	1:Q:662:GLN:H	1.62	0.42
1:Q:979:ARG:NH2	1:Q:1008:THR:O	2.52	0.42
1:I:155:SER:HB3	1:I:157:LYS:NZ	2.34	0.42
1:I:478:ILE:HG13	1:I:479:GLU:N	2.35	0.42
1:I:631:LEU:HD12	1:I:640:GLU:O	2.20	0.42
1:I:979:ARG:CZ	1:I:1020:ILE:CD1	2.94	0.42
1:I:987:VAL:HA	1:I:999:ALA:CA	2.49	0.42
1:I:1012:THR:HG22	1:I:1019:LYS:HZ2	1.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1100:MET:HB3	1:I:1113:GLN:HB3	2.02	0.42
1:K:11:GLN:HG3	1:K:13:LYS:H	1.85	0.42
1:K:134:LEU:HD23	1:K:164:VAL:HG21	2.02	0.42
1:K:563:ARG:O	1:K:566:LEU:HB3	2.19	0.42
1:K:728:ALA:HA	1:K:736:PHE:HD1	1.85	0.42
1:K:984:LEU:O	1:K:985:LEU:HD23	2.19	0.42
1:K:1061:LEU:HD11	1:K:1090:LEU:N	2.35	0.42
1:H:616:LEU:O	1:H:617:HIS:CG	2.73	0.42
1:H:992:ARG:CG	1:H:992:ARG:NH1	2.82	0.42
1:H:1133:ALA:HB1	1:H:1144:ILE:HG12	2.02	0.42
1:H:1145:VAL:HA	1:H:1151:ASN:H	1.85	0.42
1:J:293:THR:HG22	1:J:296:GLU:HG2	2.02	0.42
1:J:329:GLU:O	1:J:332:ARG:HG2	2.20	0.42
1:J:458:LEU:CD2	1:J:488:ARG:NH2	2.83	0.42
1:J:721:GLU:N	1:J:721:GLU:OE1	2.53	0.42
1:L:127:ARG:HG3	1:L:130:PRO:CD	2.50	0.42
1:L:331:ILE:HD13	1:L:337:THR:HA	2.01	0.42
1:L:480:HIS:CG	1:L:481:PRO:HD3	2.54	0.42
1:L:672:ASN:HB2	1:L:673:GLY:H	1.66	0.42
1:M:233:LYS:HA	1:M:238:GLU:OE1	2.20	0.42
1:M:413:LYS:HD3	1:M:420:ILE:HD11	2.02	0.42
1:M:522:LYS:HD3	1:M:525:LYS:NZ	2.35	0.42
1:M:964:CYS:HB3	1:M:979:ARG:O	2.20	0.42
1:O:153:LEU:HB2	1:O:267:ARG:HH21	1.84	0.42
1:O:400:VAL:HG12	1:O:404:LYS:NZ	2.35	0.42
1:O:845:LEU:HD13	1:O:863:THR:O	2.20	0.42
2:C:60:PHE:CD2	1:K:680:LEU:HD21	2.54	0.42
2:F:95:ARG:NH2	2:F:103:ALA:HB3	2.33	0.42
2:G:52:THR:HG21	2:G:75:LEU:HD12	2.02	0.42
1:Q:142:ARG:NH2	1:Q:144:ALA:HB3	2.35	0.42
1:Q:383:THR:O	1:Q:386:LEU:HG	2.20	0.42
1:Q:637:LEU:HD11	1:Q:658:ALA:N	2.30	0.42
1:Q:723:ALA:HB2	1:Q:746:TRP:CZ3	2.55	0.42
1:Q:764:MET:SD	1:Q:764:MET:N	2.79	0.42
1:Q:825:THR:H	1:Q:825:THR:HG1	1.54	0.42
1:Q:950:TRP:HB2	1:Q:955:ASP:HB3	2.02	0.42
1:Q:977:MET:SD	1:Q:987:VAL:HA	2.60	0.42
1:Q:1199:ASP:HB2	1:Q:1215:PHE:CE2	2.54	0.42
1:I:19:PHE:CZ	1:I:91:PRO:O	2.73	0.42
1:I:124:ASN:O	1:I:303:LYS:NZ	2.47	0.42
1:I:196:LEU:HD12	1:I:221:ILE:CD1	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:268:PHE:CD1	1:I:408:TYR:O	2.73	0.42
1:I:323:ARG:NH2	1:I:327:ILE:HD11	2.34	0.42
1:I:470:HIS:HB3	1:I:474:HIS:CE1	2.54	0.42
1:K:630:ILE:HB	1:K:642:THR:OG1	2.19	0.42
1:K:634:ASP:OD1	1:K:636:SER:HB2	2.20	0.42
1:K:718:TYR:O	1:K:751:GLN:NE2	2.52	0.42
1:K:746:TRP:CD1	1:K:762:LYS:HD3	2.54	0.42
1:K:814:LEU:HD11	1:K:821:GLU:HB2	2.02	0.42
1:H:411:VAL:O	1:H:411:VAL:HG13	2.20	0.41
1:H:543:LEU:O	1:H:547:PRO:HD3	2.19	0.41
1:H:818:VAL:HB	1:H:836:VAL:CG1	2.50	0.41
1:H:936:SER:OG	1:H:953:SER:HB3	2.14	0.41
1:H:1126:LEU:HB2	1:H:1130:ASN:OD1	2.20	0.41
1:J:35:MET:CE	1:J:39:ILE:HG12	2.43	0.41
1:J:107:ILE:HD11	1:J:110:ARG:HH21	1.85	0.41
1:J:210:ARG:NH1	1:J:211:SER:HB2	2.35	0.41
1:J:864:CYS:C	1:J:866:LYS:HZ2	2.22	0.41
1:J:1065:SER:HB3	1:J:1084:LEU:HB2	2.00	0.41
1:L:153:LEU:HB2	1:L:267:ARG:NH2	2.35	0.41
1:L:384:ILE:O	1:L:388:LEU:HG	2.20	0.41
1:L:862:ILE:HG12	1:L:885:TYR:OH	2.19	0.41
1:M:150:ASP:HB2	1:M:284:SER:HB2	2.01	0.41
1:O:666:LEU:HB2	1:O:671:CYS:HB2	2.02	0.41
2:N:37:GLU:O	2:N:40:GLN:HG2	2.20	0.41
2:C:14:HIS:O	2:C:18:ILE:HG12	2.20	0.41
2:C:82:ARG:NH1	1:K:86:LYS:H	2.18	0.41
2:D:13:ARG:NH1	2:D:109:VAL:O	2.52	0.41
2:F:95:ARG:HH21	2:F:100:LEU:HA	1.85	0.41
1:Q:155:SER:HA	1:Q:321:PRO:HD2	2.02	0.41
1:Q:259:SER:HB2	1:I:112:ARG:HD2	2.02	0.41
1:Q:327:ILE:HG12	1:Q:345:ASN:ND2	2.34	0.41
1:Q:814:LEU:HD12	1:Q:855:GLN:OE1	2.20	0.41
1:Q:1187:GLN:HB3	1:Q:1191:ILE:H	1.84	0.41
1:Q:1241:PHE:HB3	1:Q:1242:SER:H	1.44	0.41
1:I:112:ARG:HH12	1:I:115:ASN:ND2	2.03	0.41
1:I:1163:ILE:HG22	1:I:1165:VAL:H	1.85	0.41
1:K:516:ASN:HD22	1:K:612:HIS:HE1	1.65	0.41
1:H:485:THR:O	1:H:488:ARG:NH1	2.48	0.41
1:H:825:THR:HG22	1:H:832:PHE:CZ	2.54	0.41
1:H:887:LEU:HD13	1:H:889:ILE:HG13	2.00	0.41
1:H:1030:GLN:OE1	1:H:1036:VAL:CG1	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:90:SER:HA	1:J:93:LYS:NZ	2.35	0.41
1:J:112:ARG:NH2	1:I:229:ARG:HH12	2.17	0.41
1:J:419:THR:OG1	1:J:420:ILE:N	2.53	0.41
1:J:675:VAL:HA	1:J:680:LEU:O	2.20	0.41
1:J:964:CYS:N	1:J:980:GLU:HA	2.35	0.41
1:L:381:ILE:N	1:L:420:ILE:O	2.31	0.41
1:L:405:LEU:O	1:L:410:LEU:HB2	2.20	0.41
1:L:681:TRP:HE3	1:L:694:LYS:HD2	1.86	0.41
1:L:807:ASN:ND2	1:L:812:THR:OG1	2.46	0.41
1:L:889:ILE:HG13	1:L:898:VAL:CG2	2.50	0.41
1:L:899:SER:O	1:L:901:HIS:NE2	2.53	0.41
1:L:962:LYS:HD3	1:L:980:GLU:N	2.36	0.41
1:L:1153:LEU:O	1:L:1153:LEU:HD23	2.20	0.41
1:M:88:LEU:O	1:M:91:PRO:HD2	2.20	0.41
1:M:106:TYR:CE1	1:M:168:TYR:HA	2.54	0.41
1:M:704:ARG:HD3	1:M:705:PHE:N	2.35	0.41
1:M:883:ILE:HD11	1:M:903:GLU:N	2.35	0.41
1:M:890:SER:N	1:M:898:VAL:HG12	2.28	0.41
1:M:939:GLY:HA2	1:M:946:ARG:C	2.39	0.41
1:M:1183:GLU:CD	1:M:1224:LEU:HD11	2.40	0.41
1:O:241:LEU:HD12	1:O:263:LEU:HD23	2.02	0.41
1:O:449:ILE:HG23	1:O:450:PRO:HD3	2.02	0.41
1:O:757:HIS:CD2	1:O:778:TYR:CZ	3.08	0.41
2:A:55:LEU:HA	2:A:74:ARG:NH1	2.35	0.41
2:E:78:LYS:HZ3	2:E:82:ARG:HG3	1.84	0.41
1:Q:218:LYS:O	1:Q:221:ILE:HG22	2.20	0.41
1:Q:399:MET:SD	1:Q:400:VAL:N	2.93	0.41
1:Q:671:CYS:CA	1:Q:684:CYS:O	2.61	0.41
1:Q:923:ALA:HA	1:Q:1240:LEU:CD2	2.41	0.41
1:I:328:ALA:O	1:I:332:ARG:HG2	2.19	0.41
1:I:539:VAL:HA	1:I:542:ILE:HB	2.02	0.41
1:I:770:CYS:CB	1:I:776:LYS:O	2.69	0.41
1:I:854:VAL:O	1:I:854:VAL:HG12	2.20	0.41
1:I:1185:ILE:HD13	1:I:1226:TYR:HE2	1.84	0.41
1:K:163:ASP:HA	1:K:166:LEU:HD12	2.01	0.41
1:K:174:MET:HG3	1:K:177:LYS:H	1.86	0.41
1:K:218:LYS:HD2	1:K:219:LEU:N	2.34	0.41
1:K:875:LEU:HD23	1:K:875:LEU:HA	1.94	0.41
1:K:979:ARG:NH2	1:K:1020:ILE:HG23	2.34	0.41
1:K:1029:GLU:CB	1:K:1038:GLY:O	2.47	0.41
1:K:1038:GLY:O	1:K:1040:ILE:HG12	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1049:LEU:H	1:K:1061:LEU:CD1	2.33	0.41
1:K:1148:ASP:O	1:K:1150:LYS:HG3	2.20	0.41
1:H:64:THR:O	1:H:68:LYS:HG2	2.19	0.41
1:H:123:TYR:CG	1:H:304:TYR:HE1	2.39	0.41
1:H:371:ARG:NH2	1:H:441:ARG:HD3	2.32	0.41
1:H:472:GLY:HA2	1:H:487:PHE:CE1	2.55	0.41
1:H:695:GLN:CD	2:F:50:ARG:HH22	2.20	0.41
1:H:952:HIS:CG	1:H:990:LYS:CD	2.96	0.41
1:J:89:MET:O	1:J:93:LYS:HG2	2.19	0.41
1:J:198:LYS:HA	1:J:201:TYR:CD2	2.54	0.41
1:J:228:LEU:HA	1:J:231:LEU:HG	2.02	0.41
1:J:614:VAL:HG21	1:J:618:ASN:OD1	2.19	0.41
1:J:766:SER:HA	1:J:782:CYS:HA	2.03	0.41
1:J:1148:ASP:H	1:J:1150:LYS:CD	2.32	0.41
1:L:468:TYR:CE1	1:L:501:ILE:HD13	2.55	0.41
1:L:609:GLU:O	1:L:907:ILE:HA	2.21	0.41
1:L:665:HIS:CE1	1:L:669:LEU:C	2.93	0.41
1:M:47:HIS:HB3	1:M:60:ARG:NH2	2.35	0.41
1:M:183:LEU:HD12	1:M:247:VAL:HA	2.02	0.41
1:M:244:LEU:HB2	1:M:264:LEU:CB	2.50	0.41
1:M:656:ARG:HB2	1:M:676:LYS:HZ2	1.83	0.41
1:M:890:SER:HA	1:M:897:ASN:HA	2.01	0.41
1:O:331:ILE:HG12	1:O:336:ALA:O	2.21	0.41
1:O:1110:GLN:NE2	1:O:1111:GLU:HG3	2.35	0.41
2:B:73:ARG:O	2:B:77:LEU:HG	2.20	0.41
2:B:95:ARG:CZ	2:B:103:ALA:HB1	2.50	0.41
2:D:102:ALA:HA	2:D:105:LEU:HD12	2.01	0.41
2:E:57:GLY:N	2:E:59:PRO:HD2	2.36	0.41
2:F:31:TYR:HE1	2:F:75:LEU:HB2	1.84	0.41
1:Q:154:GLY:C	1:Q:322:ARG:HD3	2.40	0.41
1:Q:181:LEU:HD13	1:Q:198:LYS:HZ3	1.85	0.41
1:Q:347:ASP:O	1:Q:351:THR:OG1	2.32	0.41
1:Q:676:LYS:HB2	1:Q:677:LEU:H	1.55	0.41
1:Q:782:CYS:C	1:Q:784:SER:H	2.23	0.41
1:Q:1146:GLY:N	1:Q:1150:LYS:O	2.45	0.41
1:Q:1199:ASP:CA	1:Q:1221:LYS:HZ3	2.33	0.41
1:I:40:LEU:HD12	1:I:44:GLU:OE2	2.20	0.41
1:I:667:ILE:HG13	1:I:668:THR:N	2.35	0.41
1:I:807:ASN:ND2	1:I:851:SER:O	2.53	0.41
1:K:12:TYR:HA	1:K:15:ILE:HG12	2.02	0.41
1:K:56:SER:HA	1:K:59:LEU:HD12	2.00	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:123:TYR:HB3	1:K:304:TYR:HE1	1.86	0.41
1:K:127:ARG:HG3	1:K:130:PRO:CD	2.46	0.41
1:K:221:ILE:HA	1:K:224:ILE:HG12	2.01	0.41
1:K:330:SER:O	1:K:340:ASN:ND2	2.53	0.41
1:K:578:HIS:HA	1:K:581:VAL:HG12	2.02	0.41
1:H:339:ASP:O	1:H:344:VAL:N	2.37	0.41
1:J:108:GLU:HA	1:J:111:ASP:HB2	2.02	0.41
1:J:218:LYS:O	1:J:221:ILE:HG22	2.20	0.41
1:J:628:GLY:O	1:J:643:TYR:HA	2.19	0.41
1:J:744:LEU:HD22	1:J:745:ASN:N	2.35	0.41
1:J:749:GLN:HB3	1:J:760:VAL:HA	2.01	0.41
1:J:816:LEU:HD22	1:J:843:PRO:HG3	2.02	0.41
1:J:1058:ILE:HG23	1:J:1094:ASP:O	2.21	0.41
1:L:383:THR:O	1:L:386:LEU:HG	2.21	0.41
1:L:946:ARG:NH2	1:L:977:MET:O	2.50	0.41
1:L:949:ALA:HA	1:L:956:GLU:HA	2.02	0.41
1:M:110:ARG:HG2	1:M:114:TYR:CZ	2.55	0.41
1:M:537:ARG:HD2	1:M:538:LEU:N	2.35	0.41
1:M:761:LEU:HD12	1:M:815:ALA:HA	2.02	0.41
1:M:761:LEU:CG	1:M:804:HIS:CG	3.02	0.41
1:M:815:ALA:O	1:M:821:GLU:HA	2.20	0.41
1:M:890:SER:HA	1:M:898:VAL:H	1.85	0.41
1:M:1238:GLN:H	1:M:1238:GLN:HG3	1.45	0.41
1:O:287:HIS:HB3	1:O:290:MET:HB2	2.03	0.41
1:O:443:ILE:HG12	1:O:477:ASN:OD1	2.21	0.41
1:O:532:ASP:OD2	1:O:533:PRO:HD2	2.19	0.41
1:O:938:SER:HA	1:O:947:GLU:O	2.20	0.41
1:O:1094:ASP:HA	1:O:1135:VAL:HG11	2.01	0.41
1:O:1220:ARG:HD2	1:O:1220:ARG:HA	1.80	0.41
2:N:16:GLU:HA	2:N:19:ARG:NE	2.36	0.41
2:N:17:HIS:HA	2:N:20:LYS:NZ	2.34	0.41
2:B:25:LEU:HB2	2:B:76:LEU:HD21	2.02	0.41
2:F:37:GLU:OE2	2:F:41:GLN:NE2	2.54	0.41
2:F:48:MET:HA	2:F:51:ASN:HD21	1.84	0.41
1:Q:45:ILE:HA	1:Q:48:ILE:HD12	2.03	0.41
1:Q:414:GLN:HE21	1:Q:419:THR:HG23	1.85	0.41
1:Q:642:THR:HG23	1:Q:649:SER:HA	2.02	0.41
1:Q:887:LEU:N	1:Q:887:LEU:HD23	2.35	0.41
1:Q:1070:VAL:HG13	1:Q:1072:SER:O	2.20	0.41
1:Q:1187:GLN:OE1	1:Q:1192:SER:N	2.44	0.41
1:I:90:SER:CB	1:I:91:PRO:HD3	2.41	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:714:ILE:HG21	1:I:730:ILE:H	1.85	0.41
1:I:854:VAL:O	1:I:868:SER:HB2	2.21	0.41
1:I:1060:TYR:HB2	1:I:1068:ILE:HG23	2.01	0.41
1:K:112:ARG:HA	1:K:112:ARG:NE	2.36	0.41
1:K:174:MET:CG	1:K:177:LYS:H	2.33	0.41
1:K:220:ARG:HA	1:K:220:ARG:NH1	2.35	0.41
1:K:620:PHE:HB3	1:K:663:GLN:HE22	1.86	0.41
1:K:987:VAL:HB	1:K:997:LYS:H	1.86	0.41
1:H:42:LYS:HD2	1:H:45:ILE:HG21	2.01	0.41
1:H:156:GLY:HA2	1:H:322:ARG:NH1	2.35	0.41
1:H:372:LEU:HD21	1:H:422:ILE:HG13	2.03	0.41
1:H:621:CYS:SG	1:H:632:LEU:HB3	2.60	0.41
1:H:672:ASN:HD21	1:H:684:CYS:CB	2.32	0.41
1:H:1126:LEU:HD22	1:H:1150:LYS:HD2	2.02	0.41
1:H:1238:GLN:HG2	1:H:1241:PHE:O	2.20	0.41
1:J:143:PRO:O	1:J:261:LYS:N	2.53	0.41
1:J:192:VAL:O	1:J:195:MET:HB2	2.21	0.41
1:J:298:LYS:O	1:J:301:LEU:HG	2.20	0.41
1:J:825:THR:HB	1:J:826:ALA:H	1.65	0.41
1:J:936:SER:HB2	1:J:950:TRP:CE3	2.55	0.41
1:L:183:LEU:HD23	1:L:183:LEU:HA	1.80	0.41
1:L:330:SER:O	1:L:340:ASN:ND2	2.53	0.41
1:L:675:VAL:CG2	1:L:681:TRP:HE1	2.33	0.41
1:M:354:GLU:HG2	1:M:430:LYS:NZ	2.35	0.41
1:M:463:LEU:HD23	1:M:466:TYR:H	1.85	0.41
1:M:559:THR:O	1:M:562:LEU:HG	2.20	0.41
1:M:761:LEU:HB2	1:M:804:HIS:CG	2.53	0.41
1:M:803:LEU:O	1:M:816:LEU:HB2	2.20	0.41
1:O:147:VAL:O	1:O:264:LEU:HD23	2.20	0.41
1:O:232:LEU:O	1:O:237:TYR:HB2	2.21	0.41
1:O:341:TRP:CZ3	1:O:342:LYS:HD2	2.55	0.41
1:O:632:LEU:HD23	1:O:640:GLU:O	2.21	0.41
1:O:808:VAL:HG12	1:O:850:GLN:O	2.20	0.41
1:O:900:GLU:OE1	1:O:900:GLU:N	2.53	0.41
1:O:1224:LEU:HD23	1:O:1235:CYS:HB2	2.02	0.41
2:N:70:GLU:HA	2:N:73:ARG:HG2	2.02	0.41
2:A:25:LEU:HB2	2:A:76:LEU:HD21	2.02	0.41
2:A:101:ASP:OD1	2:A:101:ASP:N	2.54	0.41
2:E:50:ARG:O	2:E:53:GLN:HG3	2.21	0.41
2:E:75:LEU:O	2:E:79:ILE:HG12	2.21	0.41
1:Q:218:LYS:HA	1:Q:221:ILE:HG22	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:400:VAL:HG12	1:Q:404:LYS:HZ2	1.85	0.41
1:Q:764:MET:HG2	1:Q:766:SER:OG	2.21	0.41
1:Q:765:GLN:OE1	1:Q:817:ASP:HA	2.20	0.41
1:Q:899:SER:HA	1:Q:906:ASP:HB2	2.01	0.41
1:Q:928:VAL:HG22	1:Q:937:VAL:CG1	2.50	0.41
1:Q:948:ILE:O	1:Q:956:GLU:HA	2.20	0.41
1:I:422:ILE:HG22	1:I:423:PRO:O	2.21	0.41
1:I:855:GLN:HA	1:I:875:LEU:HD11	2.02	0.41
1:I:977:MET:HE2	1:I:1009:ILE:HD13	2.01	0.41
1:I:989:SER:HB3	1:I:1018:CYS:SG	2.59	0.41
1:I:1136:LYS:NZ	1:I:1189:ALA:HA	2.35	0.41
1:K:118:GLN:O	1:K:122:LYS:NZ	2.54	0.41
1:K:200:LEU:HA	1:K:203:ILE:HG12	2.02	0.41
1:K:406:HIS:ND1	1:K:412:GLU:HA	2.35	0.41
1:K:609:GLU:O	1:K:907:ILE:HG23	2.20	0.41
1:H:40:LEU:HG	1:H:44:GLU:OE2	2.20	0.41
1:H:200:LEU:HD11	1:H:207:TRP:CE2	2.55	0.41
1:H:1021:ASN:OD1	1:H:1047:THR:O	2.38	0.41
1:H:1229:GLU:O	1:H:1231:VAL:N	2.47	0.41
1:J:39:ILE:HG13	1:J:40:LEU:CD2	2.50	0.41
1:J:106:TYR:HA	1:J:109:GLN:NE2	2.35	0.41
1:J:157:LYS:HD3	1:J:265:THR:OG1	2.21	0.41
1:J:437:TYR:CZ	1:J:439:LEU:HB2	2.55	0.41
1:J:833:LYS:HG3	1:J:870:ASP:OD1	2.21	0.41
1:J:912:ASP:HA	1:J:915:TYR:HD2	1.86	0.41
1:J:1049:LEU:HG	1:J:1049:LEU:O	2.20	0.41
1:J:1215:PHE:HB3	1:J:1216:ALA:H	1.75	0.41
1:L:54:ALA:O	1:L:58:THR:OG1	2.20	0.41
1:L:193:LEU:O	1:L:197:GLN:HG2	2.20	0.41
1:L:287:HIS:CD2	1:L:290:MET:H	2.36	0.41
1:L:329:GLU:O	1:L:332:ARG:HG2	2.21	0.41
1:L:437:TYR:OH	1:L:440:HIS:HB2	2.20	0.41
1:L:1093:ASN:OD1	1:L:1102:VAL:O	2.37	0.41
1:M:177:LYS:HB2	1:M:239:ASN:O	2.21	0.41
1:M:386:LEU:HA	1:M:389:ILE:HG22	2.03	0.41
1:M:483:ARG:CD	1:M:530:ASP:HB3	2.51	0.41
1:M:682:PRO:HB3	1:M:693:SER:HA	2.01	0.41
1:O:131:TYR:CD1	1:O:164:VAL:HA	2.55	0.41
1:O:342:LYS:HE3	1:O:342:LYS:HB2	1.84	0.41
1:O:463:LEU:N	1:O:467:PHE:HB2	2.35	0.41
1:O:488:ARG:CB	1:O:491:PHE:HB2	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:922:GLY:O	1:O:1240:LEU:HB3	2.21	0.41
2:N:91:ILE:O	2:N:95:ARG:HG2	2.20	0.41
2:C:22:LEU:HD11	2:C:73:ARG:HA	2.02	0.41
2:F:29:THR:OG1	2:F:72:HIS:NE2	2.53	0.41
1:Q:672:ASN:N	1:Q:684:CYS:O	2.54	0.41
1:Q:809:GLU:N	1:Q:809:GLU:CD	2.72	0.41
1:Q:825:THR:OG1	1:Q:830:LEU:HD13	2.21	0.41
1:Q:929:VAL:HG22	1:Q:971:LEU:C	2.41	0.41
1:Q:946:ARG:NH1	1:Q:967:PRO:HB2	2.36	0.41
1:Q:1149:LEU:HD23	1:Q:1181:CYS:HB3	2.03	0.41
1:I:253:TRP:O	1:I:256:PHE:N	2.49	0.41
1:I:355:SER:HA	1:I:358:ASN:OD1	2.20	0.41
1:K:93:LYS:HB2	1:K:97:ARG:NH2	2.24	0.41
1:K:287:HIS:CD2	1:K:289:SER:H	2.38	0.41
1:K:368:MET:SD	1:K:389:ILE:HG23	2.60	0.41
1:K:521:LEU:HG	1:K:525:LYS:NZ	2.35	0.41
1:K:1062:LYS:O	1:K:1065:SER:N	2.48	0.41
1:H:69:GLN:O	1:H:73:VAL:HG23	2.20	0.41
1:H:134:LEU:HD21	1:H:149:ILE:HD13	2.02	0.41
1:H:295:ASP:OD1	1:H:296:GLU:N	2.53	0.41
1:H:328:ALA:O	1:H:332:ARG:HG2	2.21	0.41
1:H:808:VAL:HG23	1:H:853:ALA:HA	2.01	0.41
1:H:977:MET:HE3	1:H:1018:CYS:SG	2.60	0.41
1:H:978:THR:HB	1:H:979:ARG:H	1.72	0.41
1:J:146:ASN:OD1	1:J:146:ASN:N	2.53	0.41
1:J:194:GLU:O	1:J:198:LYS:HG2	2.21	0.41
1:J:449:ILE:CG2	1:J:450:PRO:HD3	2.51	0.41
1:J:728:ALA:C	1:J:735:ALA:CB	2.78	0.41
1:L:664:LYS:NZ	1:L:664:LYS:CB	2.73	0.41
1:L:695:GLN:H	1:L:695:GLN:NE2	2.19	0.41
1:L:978:THR:HG21	1:L:987:VAL:CA	2.50	0.41
1:M:60:ARG:O	1:M:64:THR:HG23	2.20	0.41
1:M:234:SER:N	1:M:238:GLU:OE2	2.54	0.41
1:M:381:ILE:HG22	1:M:420:ILE:O	2.21	0.41
1:M:620:PHE:O	1:M:633:THR:OG1	2.37	0.41
1:M:950:TRP:HD1	1:M:955:ASP:HB2	1.85	0.41
1:M:968:ASN:ND2	1:M:977:MET:HB3	2.34	0.41
1:M:1233:GLU:H	1:M:1246:LEU:HD23	1.85	0.41
1:O:632:LEU:HD21	1:O:640:GLU:HB3	2.02	0.41
1:O:999:ALA:HA	1:O:1032:PHE:CZ	2.55	0.41
1:O:1218:GLU:HB3	1:O:1219:ASN:H	1.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:66:ASP:O	2:N:70:GLU:HG2	2.20	0.41
2:D:39:VAL:HG13	2:D:40:GLN:OE1	2.20	0.41
2:F:21:ASN:HA	2:F:24:ILE:HD13	2.01	0.41
2:G:13:ARG:HH11	2:G:109:VAL:HG13	1.86	0.41
1:Q:146:ASN:OD1	1:Q:280:THR:HG22	2.20	0.41
1:Q:329:GLU:OE2	1:Q:332:ARG:NH1	2.53	0.41
1:Q:437:TYR:CZ	1:Q:440:HIS:HB3	2.55	0.41
1:Q:618:ASN:ND2	1:Q:906:ASP:N	2.69	0.41
1:Q:618:ASN:CB	1:Q:901:HIS:N	2.84	0.41
1:Q:727:GLU:N	1:Q:737:ILE:O	2.49	0.41
1:I:147:VAL:HA	1:I:281:THR:OG1	2.20	0.41
1:I:221:ILE:HA	1:I:224:ILE:HG22	2.02	0.41
1:I:633:THR:HB	1:I:660:PHE:CE2	2.56	0.41
1:I:664:LYS:HZ3	1:I:681:TRP:HH2	1.67	0.41
1:I:666:LEU:HD11	1:I:730:ILE:HD13	2.02	0.41
1:I:1057:PRO:O	1:I:1058:ILE:HB	2.20	0.41
1:I:1239:LEU:HB2	1:I:1241:PHE:CE2	2.55	0.41
1:K:65:LEU:CD1	1:K:73:VAL:HB	2.50	0.41
1:K:381:ILE:HG12	1:K:382:PRO:O	2.21	0.41
1:K:496:PHE:CZ	1:K:500:LYS:HG3	2.55	0.41
1:K:824:LYS:HE2	1:K:831:ILE:HG12	2.02	0.41
1:K:968:ASN:HB2	1:K:1011:PRO:HB3	2.02	0.41
1:K:1078:LYS:HG2	1:K:1079:THR:HG23	2.01	0.41
1:H:573:ILE:HG13	1:H:574:PHE:N	2.36	0.41
1:H:637:LEU:HD22	1:H:637:LEU:HA	1.89	0.41
1:J:39:ILE:HG21	1:J:75:LYS:HB2	2.03	0.41
1:J:65:LEU:HD12	1:J:65:LEU:HA	1.83	0.41
1:J:337:THR:O	1:J:341:TRP:HB2	2.21	0.41
1:J:523:PHE:O	1:J:527:TYR:CD2	2.74	0.41
1:J:760:VAL:CG1	1:J:762:LYS:HE2	2.50	0.41
1:J:868:SER:HB3	1:J:875:LEU:HG	2.02	0.41
1:J:909:GLU:HB3	1:J:914:VAL:CG2	2.51	0.41
1:L:192:VAL:O	1:L:195:MET:HB2	2.21	0.41
1:L:195:MET:O	1:L:199:LEU:HG	2.21	0.41
1:L:220:ARG:HA	1:L:220:ARG:NE	2.36	0.41
1:L:449:ILE:N	1:L:450:PRO:CD	2.83	0.41
1:L:668:THR:HG22	1:L:711:ASN:HD21	1.85	0.41
1:L:714:ILE:HB	1:L:729:ASN:ND2	2.36	0.41
1:L:1234:HIS:HB3	1:L:1242:SER:HB2	2.02	0.41
1:M:39:ILE:HD11	1:M:73:VAL:HA	2.01	0.41
1:M:183:LEU:HB3	1:M:248:GLN:HG2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:275:LEU:HD12	1:M:282:HIS:CD2	2.56	0.41
1:M:478:ILE:HG13	1:M:479:GLU:N	2.35	0.41
1:M:936:SER:HB3	1:M:948:ILE:HG22	2.03	0.41
1:O:39:ILE:CD1	1:O:76:PHE:HB2	2.50	0.41
1:O:125:VAL:HB	1:O:127:ARG:HH11	1.86	0.41
1:O:162:LEU:O	1:O:166:LEU:HG	2.21	0.41
1:O:211:SER:O	1:O:220:ARG:NE	2.54	0.41
1:O:924:LYS:O	1:O:926:LYS:HG2	2.21	0.41
2:N:11:PRO:HD2	2:N:14:HIS:ND1	2.35	0.41
2:N:16:GLU:HA	2:N:19:ARG:CD	2.51	0.41
2:B:58:LYS:N	2:B:59:PRO:HD2	2.36	0.41
2:E:23:ASN:O	2:E:26:VAL:HG12	2.20	0.41
2:E:30:ASN:OD1	2:E:31:TYR:N	2.54	0.41
2:G:46:VAL:HB	1:Q:81:LEU:HA	2.02	0.41
1:Q:623:ILE:HB	1:Q:897:ASN:HD22	1.86	0.41
1:Q:703:LYS:NZ	1:Q:721:GLU:HA	2.36	0.41
1:Q:934:LEU:HB2	1:Q:950:TRP:CE3	2.53	0.41
1:Q:1134:PHE:CE2	1:Q:1183:GLU:HA	2.55	0.41
1:I:110:ARG:HD2	1:I:111:ASP:N	2.36	0.41
1:I:167:SER:HB3	1:I:170:VAL:HG22	2.01	0.41
1:I:524:TYR:HB3	1:I:543:LEU:HD12	2.02	0.41
1:I:632:LEU:HD11	1:I:640:GLU:HB2	2.03	0.41
1:I:876:LEU:HD22	1:I:916:LYS:H	1.85	0.41
1:I:1146:GLY:O	1:I:1181:CYS:HB2	2.21	0.41
1:K:293:THR:HG23	1:K:296:GLU:H	1.86	0.41
1:K:429:LEU:HA	1:K:432:LYS:NZ	2.36	0.41
1:K:438:ALA:HA	1:K:441:ARG:CZ	2.51	0.41
1:K:761:LEU:HD21	1:K:815:ALA:HB1	2.03	0.41
1:K:771:PHE:CD1	1:K:776:LYS:HB2	2.56	0.41
1:K:821:GLU:OE1	1:K:823:SER:N	2.54	0.41
1:K:858:GLU:HA	1:K:864:CYS:SG	2.61	0.41
1:K:951:VAL:HG12	1:K:952:HIS:ND1	2.35	0.41
1:H:90:SER:O	1:H:94:THR:OG1	2.23	0.41
1:H:129:GLN:HG3	1:H:289:SER:HB2	2.03	0.41
1:H:204:ASP:OD2	1:H:206:ASN:ND2	2.50	0.41
1:H:326:ILE:HD11	1:H:348:LYS:HG3	2.03	0.41
1:H:641:ASP:OD1	1:H:651:SER:N	2.53	0.41
1:H:717:PHE:HB3	1:H:753:PHE:CD1	2.55	0.41
1:H:816:LEU:CD1	1:H:843:PRO:HG2	2.51	0.41
1:H:833:LYS:HZ1	1:H:869:THR:HA	1.86	0.41
1:H:936:SER:HB2	1:H:953:SER:CB	2.43	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:955:ASP:N	1:H:990:LYS:HZ2	2.18	0.41
1:H:1008:THR:O	1:H:1008:THR:OG1	2.36	0.41
1:H:1092:PRO:HG3	1:H:1134:PHE:HA	2.02	0.41
1:J:384:ILE:O	1:J:388:LEU:HG	2.20	0.41
1:J:404:LYS:HA	1:J:404:LYS:HD3	1.93	0.41
1:J:620:PHE:HB3	1:J:663:GLN:OE1	2.21	0.41
1:J:658:ALA:HB3	1:J:676:LYS:CD	2.51	0.41
1:J:687:ARG:HH21	1:J:688:ARG:HG2	1.86	0.41
1:J:803:LEU:HD21	1:J:845:LEU:HA	2.01	0.41
1:J:1024:SER:C	1:J:1026:PHE:N	2.74	0.41
1:J:1067:ASN:OD1	1:J:1081:ILE:HB	2.21	0.41
1:J:1150:LYS:HE2	1:J:1181:CYS:HB2	2.01	0.41
1:L:26:ASN:OD1	2:B:81:GLN:NE2	2.53	0.41
1:L:40:LEU:HD23	1:L:42:LYS:N	2.36	0.41
1:L:376:PRO:HB2	1:L:379:ALA:HB2	2.01	0.41
1:L:625:LEU:CB	1:L:669:LEU:HD11	2.51	0.41
1:L:668:THR:HG22	1:L:711:ASN:ND2	2.36	0.41
1:L:803:LEU:HD13	1:L:846:SER:OG	2.21	0.41
1:M:12:TYR:HA	1:M:15:ILE:HG12	2.02	0.41
1:M:179:PHE:O	1:M:242:LEU:HA	2.20	0.41
1:M:354:GLU:HG2	1:M:430:LYS:HZ1	1.86	0.41
1:M:464:ASP:OD1	1:M:501:ILE:HG12	2.21	0.41
1:M:471:ILE:HD12	1:M:471:ILE:HA	1.82	0.41
1:M:519:GLN:HE21	1:M:520:GLN:NE2	2.18	0.41
1:M:534:LYS:O	1:M:537:ARG:HG3	2.21	0.41
1:M:538:LEU:HD11	1:M:571:GLU:HA	2.03	0.41
1:M:725:LEU:O	1:M:738:ASN:HA	2.21	0.41
1:M:881:GLY:O	1:M:882:LEU:HB2	2.20	0.41
1:M:924:LYS:HA	1:M:1236:ILE:HG22	2.02	0.41
1:M:1027:ASN:HD22	1:M:1042:ASP:HB2	1.85	0.41
1:M:1103:SER:N	1:M:1106:TYR:OH	2.54	0.41
1:M:1108:SER:C	1:M:1130:ASN:HB2	2.41	0.41
1:M:1234:HIS:NE2	1:M:1246:LEU:HD11	2.36	0.41
1:O:56:SER:HA	1:O:59:LEU:HG	2.03	0.41
1:O:68:LYS:HB3	1:O:72:MET:HE1	2.03	0.41
1:O:525:LYS:H	1:O:526:PRO:HD2	1.85	0.41
2:N:11:PRO:HD2	2:N:14:HIS:CE1	2.56	0.41
2:A:30:ASN:OD1	2:A:31:TYR:N	2.54	0.41
2:A:76:LEU:O	2:A:79:ILE:HG22	2.20	0.41
2:B:17:HIS:HE2	2:B:106:LEU:HA	1.85	0.41
2:B:37:GLU:OE1	2:B:40:GLN:NE2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:47:GLN:CD	1:K:32:VAL:HA	2.42	0.41
2:E:31:TYR:HB3	2:E:68:ARG:NH2	2.32	0.41
1:Q:18:VAL:HG21	1:Q:103:THR:HG23	2.02	0.41
1:Q:249:ASN:HA	1:Q:271:VAL:HG22	2.02	0.41
1:Q:300:LEU:O	1:Q:303:LYS:HG2	2.21	0.41
1:Q:361:GLU:HG3	1:Q:365:TYR:CE2	2.55	0.41
1:Q:646:ARG:HD3	1:Q:648:GLU:CD	2.41	0.41
1:Q:935:ARG:HH12	1:Q:1233:GLU:N	2.18	0.41
1:Q:979:ARG:NE	1:Q:985:LEU:HD22	2.29	0.41
1:Q:1046:ASP:OD2	1:Q:1063:GLN:NE2	2.53	0.41
1:Q:1079:THR:O	1:Q:1080:VAL:HG12	2.20	0.41
1:Q:1184:GLU:O	1:Q:1185:ILE:O	2.38	0.41
1:I:323:ARG:HD2	1:I:425:ILE:CD1	2.51	0.41
1:I:340:ASN:HA	1:I:344:VAL:CB	2.51	0.41
1:I:426:TYR:O	1:I:430:LYS:HB3	2.21	0.41
1:I:475:LEU:HB3	1:I:487:PHE:HE1	1.86	0.41
1:I:483:ARG:NH2	1:I:528:ILE:HA	2.36	0.41
1:I:768:ILE:HG12	1:I:777:ARG:HD3	2.03	0.41
1:I:940:SER:HA	1:I:946:ARG:HG2	2.03	0.41
1:I:968:ASN:HD21	1:I:1009:ILE:HG21	1.80	0.41
1:I:1042:ASP:OD2	1:I:1062:LYS:NZ	2.54	0.41
1:K:295:ASP:HA	1:K:298:LYS:HG2	2.03	0.41
1:K:304:TYR:HB3	1:K:332:ARG:HH12	1.85	0.41
1:K:479:GLU:HG3	1:K:480:HIS:H	1.85	0.41
1:K:483:ARG:HH11	1:K:530:ASP:C	2.25	0.41
1:K:529:CYS:SG	1:K:530:ASP:N	2.94	0.41
1:K:837:TRP:HZ2	1:K:857:PRO:HB2	1.86	0.41
1:K:1027:ASN:HD22	1:K:1041:ILE:HA	1.85	0.41
1:K:1040:ILE:HG21	1:K:1070:VAL:HG11	2.02	0.41
1:H:105:MET:O	1:H:109:GLN:OE1	2.39	0.41
1:H:127:ARG:HD2	1:H:292:LEU:HA	2.03	0.41
1:H:704:ARG:HH12	1:H:749:GLN:C	2.24	0.41
1:H:770:CYS:O	1:H:775:LEU:HA	2.21	0.41
1:H:975:MET:HG3	1:H:992:ARG:HG2	2.02	0.41
1:J:26:ASN:OD1	1:J:27:PHE:N	2.53	0.41
1:J:159:TRP:CD1	1:J:159:TRP:N	2.89	0.41
1:J:451:LYS:HA	1:J:451:LYS:HD2	1.83	0.41
1:J:534:LYS:O	1:J:537:ARG:HG3	2.21	0.41
1:J:634:ASP:O	1:J:660:PHE:HB2	2.21	0.41
1:J:1183:GLU:OE2	1:J:1223:GLN:HA	2.21	0.41
1:L:276:SER:O	1:L:280:THR:OG1	2.39	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1103:SER:O	1:M:1105:LYS:N	2.54	0.41
1:O:317:LEU:O	1:O:318:THR:OG1	2.32	0.41
1:O:486:LEU:O	1:O:488:ARG:HD2	2.21	0.41
1:O:857:PRO:HG2	1:O:865:GLY:C	2.41	0.41
2:A:39:VAL:HG21	2:A:49:LEU:CD2	2.51	0.41
2:E:18:ILE:HG21	2:E:80:THR:HG22	2.01	0.41
2:G:75:LEU:O	2:G:79:ILE:HG12	2.21	0.41
1:Q:52:LYS:HD2	1:Q:52:LYS:HA	1.90	0.41
1:Q:402:VAL:HG23	1:Q:413:LYS:HZ1	1.86	0.41
1:Q:680:LEU:CD1	1:Q:696:GLN:CG	2.98	0.41
1:Q:921:CYS:HB3	1:Q:922:GLY:H	1.77	0.41
1:Q:1070:VAL:HA	1:Q:1078:LYS:CB	2.48	0.41
1:I:20:GLU:OE2	1:I:58:THR:HB	2.21	0.41
1:I:106:TYR:HB2	1:I:176:PHE:CE1	2.55	0.41
1:I:338:TRP:HA	1:I:341:TRP:HB2	2.03	0.41
1:I:405:LEU:CA	1:I:410:LEU:CD2	2.98	0.41
1:I:467:PHE:O	1:I:471:ILE:HG22	2.20	0.41
1:I:822:ARG:HG2	1:I:834:TYR:CE1	2.55	0.41
1:I:921:CYS:SG	1:I:922:GLY:N	2.94	0.41
1:K:51:SER:O	1:K:60:ARG:NH1	2.54	0.41
1:K:90:SER:HB2	1:K:91:PRO:HD3	2.02	0.41
1:K:156:GLY:O	1:K:160:VAL:N	2.40	0.41
1:K:622:LEU:HD13	1:K:889:ILE:HG21	2.02	0.41
1:K:713:LYS:HB3	1:K:715:VAL:HG23	2.03	0.41
1:K:921:CYS:HB3	1:K:1240:LEU:HD23	2.03	0.41
1:H:20:GLU:HB3	1:H:62:PHE:CE2	2.56	0.40
1:H:247:VAL:HG11	1:H:271:VAL:HG11	2.02	0.40
1:H:360:LEU:H	1:H:366:ARG:HH21	1.69	0.40
1:H:479:GLU:HB3	1:H:482:GLU:OE1	2.21	0.40
1:H:714:ILE:HG22	1:H:714:ILE:O	2.21	0.40
1:J:249:ASN:HA	1:J:271:VAL:HG22	2.03	0.40
1:J:355:SER:HA	1:J:358:ASN:OD1	2.21	0.40
1:J:643:TYR:HD2	1:J:646:ARG:H	1.70	0.40
1:J:828:VAL:HG23	1:J:829:LEU:HD22	2.02	0.40
1:L:81:LEU:HD21	1:L:88:LEU:CB	2.51	0.40
1:L:294:PRO:C	1:L:298:LYS:HZ2	2.23	0.40
1:L:719:LEU:HD22	1:L:749:GLN:NE2	2.36	0.40
1:L:720:ASN:ND2	1:L:726:PRO:HG3	2.36	0.40
1:L:936:SER:HB3	1:L:950:TRP:CH2	2.55	0.40
1:M:147:VAL:HG13	1:M:281:THR:HG23	2.02	0.40
1:M:250:ALA:HB2	1:M:274:PHE:CE1	2.55	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:303:LYS:HE3	1:M:304:TYR:CE2	2.56	0.40
1:O:39:ILE:HD11	1:O:76:PHE:HB2	2.03	0.40
1:O:156:GLY:HA2	1:O:322:ARG:HH22	1.85	0.40
1:O:537:ARG:HD2	1:O:538:LEU:N	2.36	0.40
1:O:989:SER:H	1:O:992:ARG:HG2	1.85	0.40
1:O:1194:LEU:HD23	1:O:1201:THR:O	2.21	0.40
2:A:22:LEU:HD23	2:A:76:LEU:HD23	2.02	0.40
2:D:30:ASN:HB2	2:D:33:ARG:HE	1.86	0.40
2:G:19:ARG:HD2	2:G:20:LYS:N	2.36	0.40
2:G:79:ILE:HA	2:G:82:ARG:HH22	1.86	0.40
1:Q:167:SER:O	1:Q:171:GLN:HG3	2.21	0.40
1:Q:247:VAL:H	1:Q:266:THR:HA	1.86	0.40
1:Q:336:ALA:HB3	1:Q:339:ASP:HB3	2.02	0.40
1:Q:468:TYR:CE1	1:Q:501:ILE:HD13	2.56	0.40
1:Q:620:PHE:CZ	1:Q:662:GLN:HA	2.55	0.40
1:Q:824:LYS:NZ	1:Q:831:ILE:CD1	2.75	0.40
1:Q:969:VAL:CG1	1:Q:977:MET:HG2	2.51	0.40
1:Q:1084:LEU:HG	1:Q:1105:LYS:HB2	2.03	0.40
1:Q:1199:ASP:HB2	1:Q:1215:PHE:CD2	2.56	0.40
1:I:268:PHE:HB3	1:I:270:GLN:HG3	2.03	0.40
1:I:732:LEU:HD23	1:I:732:LEU:HA	1.86	0.40
1:I:966:GLU:HA	1:I:967:PRO:HD3	1.92	0.40
1:K:105:MET:HA	1:K:108:GLU:OE1	2.22	0.40
1:K:143:PRO:HA	1:K:261:LYS:CG	2.50	0.40
1:K:472:GLY:HA2	1:K:487:PHE:HE1	1.84	0.40
1:K:620:PHE:HB3	1:K:663:GLN:NE2	2.36	0.40
1:K:732:LEU:HD22	1:K:736:PHE:CZ	2.55	0.40
1:K:1195:VAL:HG12	1:K:1199:ASP:O	2.22	0.40
1:K:1199:ASP:N	1:K:1221:LYS:HD2	2.36	0.40
1:H:23:PHE:CD1	1:H:27:PHE:CD1	3.02	0.40
1:H:405:LEU:HB3	1:H:410:LEU:HB2	2.04	0.40
1:H:449:ILE:O	1:H:452:THR:OG1	2.29	0.40
1:H:638:GLU:H	1:H:638:GLU:HG2	1.53	0.40
1:J:239:ASN:OD1	1:J:239:ASN:N	2.55	0.40
1:J:516:ASN:O	1:J:520:GLN:HG3	2.21	0.40
1:J:959:VAL:HB	1:J:977:MET:CE	2.51	0.40
1:L:38:SER:HG	1:L:75:LYS:NZ	2.19	0.40
1:L:106:TYR:HB2	1:L:176:PHE:CE1	2.56	0.40
1:L:463:LEU:O	1:L:467:PHE:HB2	2.21	0.40
1:L:730:ILE:HG22	1:L:731:GLN:H	1.86	0.40
1:L:1046:ASP:OD1	1:L:1046:ASP:N	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1200:GLY:HA2	1:L:1221:LYS:HZ2	1.87	0.40
1:M:144:ALA:HB3	1:O:112:ARG:NH2	2.37	0.40
1:M:847:VAL:HG22	1:M:848:SER:N	2.36	0.40
1:O:198:LYS:HA	1:O:198:LYS:HD3	1.89	0.40
1:O:888:LYS:HA	1:O:899:SER:HA	2.02	0.40
1:O:935:ARG:HH11	1:O:1234:HIS:HB2	1.86	0.40
1:O:950:TRP:CD1	1:O:955:ASP:HB3	2.56	0.40
1:O:1031:ILE:O	1:O:1036:VAL:N	2.54	0.40
1:O:1149:LEU:CD2	1:O:1220:ARG:NH2	2.84	0.40
2:B:93:ALA:O	2:B:97:ILE:HG12	2.21	0.40
2:C:11:PRO:HB2	2:C:14:HIS:CE1	2.56	0.40
2:C:82:ARG:HH12	1:K:86:LYS:H	1.69	0.40
2:C:82:ARG:NH2	1:K:86:LYS:HB2	2.37	0.40
1:Q:201:TYR:CD1	1:Q:205:PRO:HA	2.57	0.40
1:Q:675:VAL:HA	1:Q:681:TRP:HA	2.03	0.40
1:Q:841:PHE:CB	1:Q:863:THR:HG21	2.51	0.40
1:Q:889:ILE:HD12	1:Q:890:SER:H	1.87	0.40
1:I:323:ARG:NH1	1:I:323:ARG:HB3	2.36	0.40
1:I:685:PRO:HG2	1:I:687:ARG:HB2	2.02	0.40
1:I:764:MET:CB	1:I:767:GLY:H	2.33	0.40
1:I:1099:MET:O	1:I:1100:MET:HG2	2.21	0.40
1:K:20:GLU:OE2	1:K:58:THR:HB	2.21	0.40
1:K:37:LYS:NZ	1:K:42:LYS:HB2	2.36	0.40
1:K:83:ILE:HD12	1:K:83:ILE:H	1.85	0.40
1:K:357:LEU:HD23	1:K:360:LEU:HD22	2.03	0.40
1:H:149:ILE:O	1:H:265:THR:HA	2.20	0.40
1:H:483:ARG:HG3	1:H:487:PHE:CD1	2.56	0.40
1:H:719:LEU:HD21	1:H:751:GLN:HB2	2.04	0.40
1:H:807:ASN:CG	1:H:853:ALA:HB1	2.41	0.40
1:H:1196:ALA:HA	1:H:1199:ASP:OD1	2.20	0.40
1:J:445:ASP:O	1:J:449:ILE:HG22	2.21	0.40
1:J:737:ILE:O	1:J:737:ILE:CG2	2.69	0.40
1:J:1010:THR:O	1:J:1010:THR:HG23	2.20	0.40
1:J:1047:THR:HB	1:J:1062:LYS:CB	2.51	0.40
1:L:11:GLN:HB2	1:L:14:ASP:OD2	2.21	0.40
1:L:62:PHE:O	1:L:66:LEU:HG	2.21	0.40
1:L:183:LEU:HD22	1:L:186:CYS:SG	2.61	0.40
1:L:268:PHE:HB2	1:L:271:VAL:HG23	2.03	0.40
1:L:453:PHE:CE2	1:L:461:PRO:HG2	2.56	0.40
1:L:455:SER:N	1:L:460:PRO:HG3	2.35	0.40
1:L:1062:LYS:HE2	1:L:1068:ILE:HB	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:44:GLU:HB2	1:M:60:ARG:NH1	2.37	0.40
1:M:408:TYR:O	1:M:409:SER:HB3	2.21	0.40
1:M:663:GLN:N	1:M:663:GLN:OE1	2.54	0.40
1:M:878:THR:OG1	1:M:888:LYS:NZ	2.54	0.40
1:M:896:SER:HB3	1:M:908:TYR:OH	2.21	0.40
1:O:134:LEU:O	1:O:138:LEU:HG	2.21	0.40
1:O:157:LYS:HB2	1:O:157:LYS:HE2	1.86	0.40
1:O:542:ILE:O	1:O:546:LEU:HG	2.21	0.40
1:O:718:TYR:HB2	1:O:726:PRO:HG2	2.03	0.40
1:O:719:LEU:HD23	1:O:725:LEU:HG	2.04	0.40
1:O:882:LEU:H	1:O:882:LEU:HD12	1.86	0.40
2:C:25:LEU:HB3	2:C:76:LEU:HD21	2.03	0.40
2:E:52:THR:C	2:E:74:ARG:HH12	2.20	0.40
2:G:32:GLU:OE1	2:G:68:ARG:NH2	2.54	0.40
1:Q:361:GLU:HG3	1:Q:365:TYR:CD2	2.57	0.40
1:Q:382:PRO:HD2	1:Q:385:LEU:HD12	2.03	0.40
1:Q:630:ILE:N	1:Q:642:THR:O	2.54	0.40
1:Q:666:LEU:HD23	1:Q:666:LEU:HA	1.95	0.40
1:Q:784:SER:OG	1:Q:822:ARG:NH2	2.53	0.40
1:Q:934:LEU:HD22	1:Q:952:HIS:HB2	2.03	0.40
1:Q:1059:ASP:OD1	1:Q:1060:TYR:N	2.49	0.40
1:I:76:PHE:O	1:I:81:LEU:N	2.50	0.40
1:I:157:LYS:HD2	1:I:267:ARG:NH2	2.36	0.40
1:I:377:PRO:HA	1:I:427:LEU:HD22	2.04	0.40
1:I:522:LYS:CE	1:I:525:LYS:NZ	2.84	0.40
1:I:989:SER:HB3	1:I:1018:CYS:HB2	2.03	0.40
1:K:28:ASP:OD1	1:K:29:CYS:N	2.54	0.40
1:K:192:VAL:O	1:K:196:LEU:HD23	2.22	0.40
1:K:383:THR:O	1:K:386:LEU:HG	2.22	0.40
1:K:635:VAL:HA	1:K:659:VAL:HG13	2.02	0.40
1:K:726:PRO:HA	1:K:737:ILE:O	2.20	0.40
1:K:866:LYS:HE2	1:K:875:LEU:O	2.22	0.40
1:H:106:TYR:HD1	1:H:176:PHE:HZ	1.70	0.40
1:H:372:LEU:O	1:H:375:PHE:HD2	2.05	0.40
1:H:382:PRO:HD3	1:H:466:TYR:CD2	2.56	0.40
1:H:426:TYR:O	1:H:430:LYS:HB3	2.20	0.40
1:H:522:LYS:HZ1	1:H:646:ARG:HG3	1.86	0.40
1:H:1031:ILE:HB	1:H:1032:PHE:H	1.69	0.40
1:H:1108:SER:OG	1:H:1124:CYS:SG	2.77	0.40
1:J:39:ILE:HG22	1:J:72:MET:SD	2.62	0.40
1:J:142:ARG:NH2	1:K:10:TYR:HA	2.37	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:330:SER:O	1:J:340:ASN:ND2	2.55	0.40
1:J:483:ARG:NH1	1:J:489:MET:HE2	2.36	0.40
1:J:656:ARG:HB2	1:J:676:LYS:HZ1	1.86	0.40
1:J:732:LEU:HD23	1:J:732:LEU:HA	1.88	0.40
1:J:743:ILE:HD12	1:J:743:ILE:HA	1.89	0.40
1:J:987:VAL:HG11	1:J:1032:PHE:CG	2.56	0.40
1:J:1186:ALA:HA	1:J:1193:TYR:CD1	2.57	0.40
1:J:1218:GLU:H	1:J:1237:ARG:HD3	1.86	0.40
1:L:229:ARG:O	1:L:233:LYS:HG2	2.21	0.40
1:L:503:HIS:HA	1:L:516:ASN:CG	2.41	0.40
1:L:935:ARG:O	1:L:937:VAL:HG23	2.22	0.40
1:M:100:SER:C	1:M:104:ARG:HE	2.24	0.40
1:M:349:LEU:O	1:M:353:ILE:HG12	2.22	0.40
1:M:433:LEU:HD12	1:M:434:GLU:HB3	2.03	0.40
1:M:549:ILE:HG13	1:M:607:ASP:HB2	2.03	0.40
1:M:666:LEU:HD11	1:M:671:CYS:HB2	2.03	0.40
1:M:939:GLY:HA2	1:M:947:GLU:N	2.36	0.40
1:M:986:ALA:HA	1:M:999:ALA:H	1.85	0.40
1:M:1065:SER:CA	1:M:1105:LYS:NZ	2.85	0.40
1:M:1131:PRO:HG3	1:M:1147:PHE:HB3	2.03	0.40
1:O:633:THR:HA	1:O:639:GLY:HA2	2.03	0.40
1:O:828:VAL:O	1:O:830:LEU:HG	2.21	0.40
1:O:864:CYS:HB3	1:O:866:LYS:HZ3	1.86	0.40
2:N:34:LEU:HD13	2:N:97:ILE:HG13	2.04	0.40
2:C:24:ILE:HG23	2:C:28:TRP:CE2	2.56	0.40
2:F:24:ILE:HG22	2:F:25:LEU:HD12	2.03	0.40
2:F:104:VAL:HA	2:F:107:GLU:HG3	2.02	0.40
2:G:33:ARG:NE	2:G:97:ILE:HG23	2.36	0.40
1:Q:287:HIS:O	1:Q:291:THR:N	2.55	0.40
1:Q:295:ASP:HA	1:Q:298:LYS:HG2	2.04	0.40
1:Q:623:ILE:HG13	1:Q:895:ARG:NH1	2.36	0.40
1:Q:637:LEU:CD1	1:Q:658:ALA:N	2.77	0.40
1:Q:681:TRP:CB	1:Q:705:PHE:CZ	3.04	0.40
1:Q:856:LEU:HA	1:Q:857:PRO:HD3	1.67	0.40
1:Q:1094:ASP:C	1:Q:1135:VAL:HG12	2.42	0.40
1:Q:1108:SER:HA	1:Q:1129:ALA:HA	2.04	0.40
1:I:299:SER:O	1:I:303:LYS:HG2	2.20	0.40
1:I:463:LEU:HD23	1:I:464:ASP:N	2.37	0.40
1:I:625:LEU:HD12	1:I:626:ALA:N	2.36	0.40
1:I:1049:LEU:HB2	1:I:1061:LEU:HD22	2.03	0.40
1:K:142:ARG:HD3	1:K:142:ARG:HA	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:183:LEU:HA	1:K:183:LEU:HD23	1.78	0.40
1:K:326:ILE:HD11	1:K:348:LYS:HB3	2.02	0.40
1:K:542:ILE:O	1:K:546:LEU:HG	2.21	0.40
1:K:723:ALA:HB2	1:K:746:TRP:CZ2	2.57	0.40
1:K:924:LYS:HZ2	1:K:1222:VAL:HG11	1.86	0.40
1:H:194:GLU:O	1:H:198:LYS:HG2	2.22	0.40
1:H:672:ASN:ND2	1:H:684:CYS:O	2.54	0.40
1:H:825:THR:OG1	1:H:829:LEU:N	2.53	0.40
1:H:1187:GLN:HG3	1:H:1188:LYS:H	1.86	0.40
1:J:119:VAL:HA	1:J:122:LYS:HZ3	1.86	0.40
1:J:470:HIS:O	1:J:474:HIS:ND1	2.54	0.40
1:J:751:GLN:O	1:J:758:VAL:HA	2.22	0.40
1:J:845:LEU:HD21	1:J:888:LYS:HE3	2.03	0.40
1:J:845:LEU:CD2	1:J:887:LEU:HA	2.51	0.40
1:L:1007:SER:CB	1:L:1021:ASN:HD21	2.09	0.40
1:M:320:ASN:H	1:M:323:ARG:NH2	2.19	0.40
1:M:413:LYS:NZ	1:M:418:SER:HB3	2.37	0.40
1:M:443:ILE:HD12	1:M:443:ILE:HA	1.99	0.40
1:M:1007:SER:N	1:M:1023:ILE:HD12	2.36	0.40
1:O:302:LEU:HD12	1:O:302:LEU:HA	1.90	0.40
1:O:970:TYR:HB3	1:O:975:MET:HG3	2.02	0.40
2:N:50:ARG:HH21	2:N:54:ASP:HB3	1.87	0.40
2:C:43:ILE:HG21	2:C:79:ILE:HD11	2.04	0.40
2:D:56:ASN:OD1	2:D:59:PRO:HD3	2.21	0.40
2:E:59:PRO:HA	2:E:62:MET:SD	2.61	0.40
1:Q:722:ASP:HA	1:Q:746:TRP:CD1	2.57	0.40
1:Q:866:LYS:CD	1:Q:876:LEU:CB	2.34	0.40
1:Q:927:GLN:HG3	1:Q:968:ASN:ND2	2.37	0.40
1:I:330:SER:HB3	1:I:340:ASN:HD22	1.85	0.40
1:I:496:PHE:O	1:I:499:GLN:HG3	2.22	0.40
1:I:987:VAL:CA	1:I:999:ALA:HB2	2.49	0.40
1:I:1056:GLU:HB2	1:I:1057:PRO:HD3	2.03	0.40
1:I:1067:ASN:HD22	1:I:1082:PHE:HE2	1.67	0.40
1:I:1069:LEU:HB2	1:I:1078:LYS:HB2	2.03	0.40
1:K:263:LEU:C	1:K:264:LEU:HD12	2.42	0.40
1:K:685:PRO:HD3	1:K:690:SER:O	2.21	0.40
1:K:941:ASN:HB3	1:K:942:SER:H	1.78	0.40
1:K:979:ARG:HH21	1:K:1010:THR:HG22	1.87	0.40
1:K:1231:VAL:O	1:K:1231:VAL:HG12	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	992/1237 (80%)	793 (80%)	173 (17%)	26 (3%)	5	31
1	I	1002/1237 (81%)	843 (84%)	128 (13%)	31 (3%)	4	27
1	J	1004/1237 (81%)	823 (82%)	147 (15%)	34 (3%)	3	26
1	K	984/1237 (80%)	841 (86%)	129 (13%)	14 (1%)	11	46
1	L	1004/1237 (81%)	824 (82%)	156 (16%)	24 (2%)	6	33
1	M	988/1237 (80%)	839 (85%)	128 (13%)	21 (2%)	7	36
1	O	984/1237 (80%)	840 (85%)	127 (13%)	17 (2%)	9	42
1	Q	990/1237 (80%)	812 (82%)	145 (15%)	33 (3%)	4	26
2	A	100/102 (98%)	94 (94%)	6 (6%)	0	100	100
2	B	100/102 (98%)	95 (95%)	5 (5%)	0	100	100
2	C	100/102 (98%)	93 (93%)	7 (7%)	0	100	100
2	D	100/102 (98%)	95 (95%)	5 (5%)	0	100	100
2	E	100/102 (98%)	96 (96%)	4 (4%)	0	100	100
2	F	100/102 (98%)	97 (97%)	3 (3%)	0	100	100
2	G	100/102 (98%)	87 (87%)	12 (12%)	1 (1%)	15	54
2	N	100/102 (98%)	95 (95%)	5 (5%)	0	100	100
All	All	8748/10712 (82%)	7367 (84%)	1180 (14%)	201 (2%)	9	34

All (201) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	52	LYS
1	H	99	PRO
1	H	409	SER
1	H	662	GLN
1	H	783	THR
1	H	785	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	991	GLU
1	H	997	LYS
1	H	1150	LYS
1	H	1236	ILE
1	J	99	PRO
1	J	409	SER
1	J	721	GLU
1	J	738	ASN
1	J	740	ASP
1	J	752	GLU
1	J	1057	PRO
1	J	1065	SER
1	J	1066	PRO
1	J	1102	VAL
1	J	1152	SER
1	L	42	LYS
1	L	99	PRO
1	L	1012	THR
1	L	1067	ASN
1	L	1121	HIS
1	M	99	PRO
1	M	235	LYS
1	M	313	PRO
1	M	409	SER
1	M	774	VAL
1	M	1104	THR
1	O	99	PRO
1	O	235	LYS
1	O	409	SER
1	O	652	SER
1	O	812	THR
1	O	813	PRO
1	O	880	GLU
1	O	1065	SER
1	O	1220	ARG
2	G	46	VAL
1	Q	37	LYS
1	Q	99	PRO
1	Q	613	ALA
1	Q	852	GLU
1	Q	884	VAL
1	Q	914	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	1041	ILE
1	Q	1065	SER
1	Q	1185	ILE
1	Q	1221	LYS
1	I	99	PRO
1	I	409	SER
1	I	529	CYS
1	I	531	ASN
1	I	533	PRO
1	I	634	ASP
1	I	755	LEU
1	I	757	HIS
1	I	781	VAL
1	I	921	CYS
1	I	987	VAL
1	I	1040	ILE
1	I	1128	ILE
1	I	1203	LEU
1	K	99	PRO
1	K	409	SER
1	K	812	THR
1	K	930	HIS
1	K	1065	SER
1	K	1068	ILE
1	H	531	ASN
1	H	677	LEU
1	H	722	ASP
1	H	921	CYS
1	H	957	ILE
1	J	717	PHE
1	J	727	GLU
1	J	743	ILE
1	J	818	VAL
1	J	825	THR
1	J	1027	ASN
1	J	1043	VAL
1	J	1222	VAL
1	L	409	SER
1	L	669	LEU
1	L	1025	ALA
1	L	1043	VAL
1	L	1128	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	1228	ILE
1	M	42	LYS
1	M	318	THR
1	M	818	VAL
1	M	875	LEU
1	M	1105	LYS
1	M	1108	SER
1	M	1131	PRO
1	O	691	GLY
1	O	750	ASP
1	Q	608	ASN
1	Q	612	HIS
1	Q	632	LEU
1	Q	831	ILE
1	Q	902	ILE
1	Q	1080	VAL
1	I	993	ILE
1	I	1058	ILE
1	K	818	VAL
1	K	1009	ILE
1	K	1131	PRO
1	K	1185	ILE
1	H	632	LEU
1	H	679	SER
1	J	36	PRO
1	J	487	PHE
1	J	682	PRO
1	J	726	PRO
1	J	751	GLN
1	J	760	VAL
1	J	761	LEU
1	L	534	LYS
1	L	690	SER
1	L	818	VAL
1	L	1047	THR
1	L	1063	GLN
1	L	1124	CYS
1	M	155	SER
1	M	978	THR
1	O	656	ARG
1	Q	618	ASN
1	Q	661	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	897	ASN
1	I	615	TYR
1	I	977	MET
1	I	998	PRO
1	I	1100	MET
1	K	784	SER
1	K	1010	THR
1	H	635	VAL
1	J	530	ASP
1	J	1052	GLN
1	J	1101	ASP
1	L	408	TYR
1	L	695	GLN
1	L	964	CYS
1	L	1129	ALA
1	M	1103	SER
1	O	1236	ILE
1	Q	679	SER
1	Q	704	ARG
1	Q	853	ALA
1	Q	893	VAL
1	Q	901	HIS
1	I	619	ASP
1	I	818	VAL
1	I	990	LYS
1	I	1109	LEU
1	I	1135	VAL
1	H	118	GLN
1	H	634	ASP
1	H	636	SER
1	H	901	HIS
1	H	902	ILE
1	J	705	PHE
1	J	737	ILE
1	J	747	ASP
1	L	318	THR
1	L	1082	PHE
1	M	1218	GLU
1	O	845	LEU
1	O	1218	GLU
1	Q	628	GLY
1	Q	633	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	656	ARG
1	Q	857	PRO
1	Q	898	VAL
1	I	532	ASP
1	I	684	CYS
1	I	1066	PRO
1	H	992	ARG
1	M	118	GLN
1	M	890	SER
1	M	1239	LEU
1	Q	659	VAL
1	Q	836	VAL
1	Q	1084	LEU
1	K	118	GLN
1	H	996	ILE
1	J	813	PRO
1	L	667	ILE
1	Q	818	VAL
1	J	828	VAL
1	I	685	PRO
1	O	857	PRO
1	I	682	PRO
1	K	1128	ILE
1	H	1031	ILE
1	M	1231	VAL
1	I	967	PRO
1	O	884	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	H	973/1140 (85%)	914 (94%)	59 (6%)	18 44
1	I	977/1140 (86%)	938 (96%)	39 (4%)	31 55
1	J	980/1140 (86%)	909 (93%)	71 (7%)	14 39

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	970/1140 (85%)	952 (98%)	18 (2%)	57	75
1	L	976/1140 (86%)	926 (95%)	50 (5%)	24	48
1	M	971/1140 (85%)	950 (98%)	21 (2%)	52	71
1	O	970/1140 (85%)	956 (99%)	14 (1%)	67	80
1	Q	972/1140 (85%)	920 (95%)	52 (5%)	22	47
2	A	94/94 (100%)	93 (99%)	1 (1%)	73	84
2	B	94/94 (100%)	92 (98%)	2 (2%)	53	72
2	C	94/94 (100%)	93 (99%)	1 (1%)	73	84
2	D	94/94 (100%)	93 (99%)	1 (1%)	73	84
2	E	94/94 (100%)	93 (99%)	1 (1%)	73	84
2	F	94/94 (100%)	94 (100%)	0	100	100
2	G	94/94 (100%)	94 (100%)	0	100	100
2	N	94/94 (100%)	93 (99%)	1 (1%)	73	84
All	All	8541/9872 (86%)	8210 (96%)	331 (4%)	36	56

All (331) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	219	LEU
1	H	233	LYS
1	H	532	ASP
1	H	619	ASP
1	H	632	LEU
1	H	633	THR
1	H	634	ASP
1	H	636	SER
1	H	637	LEU
1	H	638	GLU
1	H	641	ASP
1	H	650	ASP
1	H	653	ASP
1	H	657	MET
1	H	660	PHE
1	H	662	GLN
1	H	663	GLN
1	H	664	LYS
1	H	672	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	675	VAL
1	H	676	LYS
1	H	677	LEU
1	H	678	TRP
1	H	681	TRP
1	H	703	LYS
1	H	719	LEU
1	H	784	SER
1	H	854	VAL
1	H	900	GLU
1	H	928	VAL
1	H	929	VAL
1	H	930	HIS
1	H	951	VAL
1	H	952	HIS
1	H	955	ASP
1	H	956	GLU
1	H	958	SER
1	H	959	VAL
1	H	975	MET
1	H	978	THR
1	H	981	ARG
1	H	985	LEU
1	H	987	VAL
1	H	990	LYS
1	H	992	ARG
1	H	993	ILE
1	H	994	HIS
1	H	996	ILE
1	H	997	LYS
1	H	1008	THR
1	H	1010	THR
1	H	1013	HIS
1	H	1020	ILE
1	H	1029	GLU
1	H	1030	GLN
1	H	1031	ILE
1	H	1225	ILE
1	H	1226	TYR
1	H	1235	CYS
1	J	52	LYS
1	J	127	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	135	ARG
1	J	169	LYS
1	J	210	ARG
1	J	218	LYS
1	J	251	LYS
1	J	425	ILE
1	J	471	ILE
1	J	483	ARG
1	J	484	MET
1	J	487	PHE
1	J	528	ILE
1	J	531	ASN
1	J	611	ARG
1	J	620	PHE
1	J	633	THR
1	J	662	GLN
1	J	664	LYS
1	J	681	TRP
1	J	683	ASP
1	J	687	ARG
1	J	688	ARG
1	J	702	VAL
1	J	703	LYS
1	J	705	PHE
1	J	714	ILE
1	J	719	LEU
1	J	720	ASN
1	J	721	GLU
1	J	722	ASP
1	J	737	ILE
1	J	743	ILE
1	J	744	LEU
1	J	745	ASN
1	J	749	GLN
1	J	750	ASP
1	J	752	GLU
1	J	757	HIS
1	J	758	VAL
1	J	760	VAL
1	J	761	LEU
1	J	762	LYS
1	J	769	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	770	CYS
1	J	778	TYR
1	J	779	TYR
1	J	780	VAL
1	J	781	VAL
1	J	803	LEU
1	J	805	VAL
1	J	812	THR
1	J	824	LYS
1	J	828	VAL
1	J	829	LEU
1	J	830	LEU
1	J	831	ILE
1	J	832	PHE
1	J	833	LYS
1	J	981	ARG
1	J	1009	ILE
1	J	1044	ILE
1	J	1045	HIS
1	J	1051	GLN
1	J	1052	GLN
1	J	1059	ASP
1	J	1091	GLN
1	J	1100	MET
1	J	1102	VAL
1	J	1104	THR
1	J	1153	LEU
1	L	82	ARG
1	L	97	ARG
1	L	101	MET
1	L	165	CYS
1	L	403	ASN
1	L	409	SER
1	L	502	ARG
1	L	531	ASN
1	L	663	GLN
1	L	664	LYS
1	L	667	ILE
1	L	668	THR
1	L	669	LEU
1	L	670	HIS
1	L	674	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	688	ARG
1	L	690	SER
1	L	694	LYS
1	L	696	GLN
1	L	712	LEU
1	L	770	CYS
1	L	771	PHE
1	L	782	CYS
1	L	872	ARG
1	L	899	SER
1	L	946	ARG
1	L	961	THR
1	L	964	CYS
1	L	981	ARG
1	L	1009	ILE
1	L	1010	THR
1	L	1012	THR
1	L	1041	ILE
1	L	1042	ASP
1	L	1044	ILE
1	L	1045	HIS
1	L	1062	LYS
1	L	1067	ASN
1	L	1080	VAL
1	L	1083	GLN
1	L	1084	LEU
1	L	1091	GLN
1	L	1105	LYS
1	L	1110	GLN
1	L	1126	LEU
1	L	1128	ILE
1	L	1130	ASN
1	L	1220	ARG
1	L	1234	HIS
1	L	1245	LYS
1	M	65	LEU
1	M	97	ARG
1	M	127	ARG
1	M	135	ARG
1	M	153	LEU
1	M	210	ARG
1	M	218	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	435	ASN
1	M	465	GLN
1	M	687	ARG
1	M	694	LYS
1	M	695	GLN
1	M	1042	ASP
1	M	1061	LEU
1	M	1084	LEU
1	M	1104	THR
1	M	1105	LYS
1	M	1108	SER
1	M	1110	GLN
1	M	1218	GLU
1	M	1238	GLN
1	O	150	ASP
1	O	210	ARG
1	O	218	LYS
1	O	348	LYS
1	O	409	SER
1	O	410	LEU
1	O	439	LEU
1	O	529	CYS
1	O	534	LYS
1	O	656	ARG
1	O	659	VAL
1	O	845	LEU
1	O	1043	VAL
1	O	1220	ARG
2	N	19	ARG
2	A	19	ARG
2	B	51	ASN
2	B	65	LYS
2	C	65	LYS
2	D	65	LYS
2	E	82	ARG
1	Q	41	SER
1	Q	86	LYS
1	Q	135	ARG
1	Q	218	LYS
1	Q	611	ARG
1	Q	615	TYR
1	Q	619	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	623	ILE
1	Q	632	LEU
1	Q	634	ASP
1	Q	636	SER
1	Q	640	GLU
1	Q	642	THR
1	Q	644	LEU
1	Q	654	ILE
1	Q	656	ARG
1	Q	660	PHE
1	Q	661	ASN
1	Q	664	LYS
1	Q	674	SER
1	Q	675	VAL
1	Q	676	LYS
1	Q	679	SER
1	Q	680	LEU
1	Q	683	ASP
1	Q	705	PHE
1	Q	706	ILE
1	Q	807	ASN
1	Q	809	GLU
1	Q	810	ASN
1	Q	825	THR
1	Q	830	LEU
1	Q	849	LEU
1	Q	850	GLN
1	Q	852	GLU
1	Q	856	LEU
1	Q	862	ILE
1	Q	866	LYS
1	Q	872	ARG
1	Q	886	ASP
1	Q	887	LEU
1	Q	888	LYS
1	Q	889	ILE
1	Q	893	VAL
1	Q	902	ILE
1	Q	903	GLU
1	Q	907	ILE
1	Q	908	TYR
1	Q	978	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	979	ARG
1	Q	981	ARG
1	Q	1008	THR
1	I	52	LYS
1	I	60	ARG
1	I	135	ARG
1	I	142	ARG
1	I	210	ARG
1	I	266	THR
1	I	403	ASN
1	I	409	SER
1	I	410	LEU
1	I	443	ILE
1	I	529	CYS
1	I	536	GLU
1	I	693	SER
1	I	694	LYS
1	I	753	PHE
1	I	754	LYS
1	I	776	LYS
1	I	968	ASN
1	I	970	TYR
1	I	975	MET
1	I	976	ASP
1	I	977	MET
1	I	985	LEU
1	I	987	VAL
1	I	989	SER
1	I	992	ARG
1	I	993	ILE
1	I	994	HIS
1	I	995	LEU
1	I	996	ILE
1	I	1000	ILE
1	I	1018	CYS
1	I	1019	LYS
1	I	1020	ILE
1	I	1021	ASN
1	I	1032	PHE
1	I	1065	SER
1	I	1128	ILE
1	I	1147	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	65	LEU
1	K	77	VAL
1	K	97	ARG
1	K	101	MET
1	K	218	LYS
1	K	270	GLN
1	K	435	ASN
1	K	611	ARG
1	K	664	LYS
1	K	981	ARG
1	K	1009	ILE
1	K	1012	THR
1	K	1026	PHE
1	K	1060	TYR
1	K	1061	LEU
1	K	1065	SER
1	K	1068	ILE
1	K	1167	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (146) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	117	ASN
1	H	118	GLN
1	H	136	GLN
1	H	171	GLN
1	H	358	ASN
1	H	531	ASN
1	H	618	ASN
1	H	663	GLN
1	H	672	ASN
1	H	751	GLN
1	H	785	ASN
1	H	901	HIS
1	H	930	HIS
1	H	1030	GLN
1	H	1045	HIS
1	H	1052	GLN
1	H	1063	GLN
1	J	74	GLN
1	J	187	ASN
1	J	340	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	358	ASN
1	J	499	GLN
1	J	520	GLN
1	J	531	ASN
1	J	612	HIS
1	J	661	ASN
1	J	745	ASN
1	J	749	GLN
1	J	757	HIS
1	J	804	HIS
1	J	855	GLN
1	J	1045	HIS
1	J	1067	ASN
1	J	1083	GLN
1	J	1091	GLN
1	J	1130	ASN
1	J	1223	GLN
1	L	26	ASN
1	L	129	GLN
1	L	136	GLN
1	L	187	ASN
1	L	202	GLN
1	L	287	HIS
1	L	470	HIS
1	L	520	GLN
1	L	689	HIS
1	L	711	ASN
1	L	927	GLN
1	L	930	HIS
1	L	941	ASN
1	L	1045	HIS
1	L	1083	GLN
1	L	1091	GLN
1	L	1238	GLN
1	M	115	ASN
1	M	118	GLN
1	M	171	GLN
1	M	197	GLN
1	M	254	ASN
1	M	282	HIS
1	M	287	HIS
1	M	288	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	465	GLN
1	M	499	GLN
1	M	580	GLN
1	M	612	HIS
1	M	618	ASN
1	M	1052	GLN
1	M	1083	GLN
1	M	1091	GLN
1	M	1110	GLN
1	M	1130	ASN
1	M	1234	HIS
1	O	109	GLN
1	O	136	GLN
1	O	287	HIS
1	O	403	ASN
1	O	608	ASN
1	O	663	GLN
1	O	773	GLN
1	O	1067	ASN
1	O	1091	GLN
1	O	1219	ASN
2	N	17	HIS
2	N	40	GLN
2	N	47	GLN
2	A	17	HIS
2	A	40	GLN
2	A	47	GLN
2	B	81	GLN
2	D	17	HIS
2	D	21	ASN
2	D	41	GLN
2	D	47	GLN
2	F	17	HIS
2	G	81	GLN
1	Q	47	HIS
1	Q	197	GLN
1	Q	239	ASN
1	Q	320	ASN
1	Q	414	GLN
1	Q	473	HIS
1	Q	618	ASN
1	Q	661	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Q	663	GLN
1	Q	672	ASN
1	Q	807	ASN
1	Q	810	ASN
1	Q	850	GLN
1	Q	968	ASN
1	Q	1045	HIS
1	Q	1234	HIS
1	I	69	GLN
1	I	115	ASN
1	I	118	GLN
1	I	202	GLN
1	I	246	ASN
1	I	403	ASN
1	I	435	ASN
1	I	465	GLN
1	I	695	GLN
1	I	749	GLN
1	I	757	HIS
1	I	773	GLN
1	I	807	ASN
1	I	968	ASN
1	I	1083	GLN
1	I	1130	ASN
1	K	33	GLN
1	K	109	GLN
1	K	115	ASN
1	K	118	GLN
1	K	248	GLN
1	K	270	GLN
1	K	287	HIS
1	K	340	ASN
1	K	474	HIS
1	K	503	HIS
1	K	516	ASN
1	K	612	HIS
1	K	930	HIS
1	K	1021	ASN
1	K	1027	ASN
1	K	1077	GLN
1	K	1091	GLN
1	K	1130	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

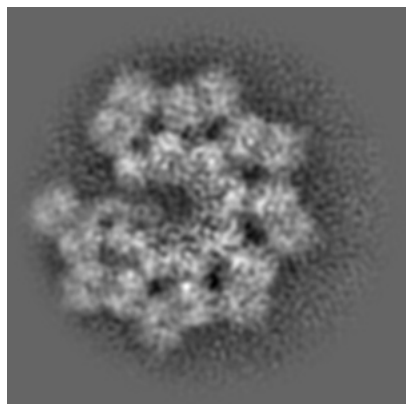
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-38995. These allow visual inspection of the internal detail of the map and identification of artifacts.

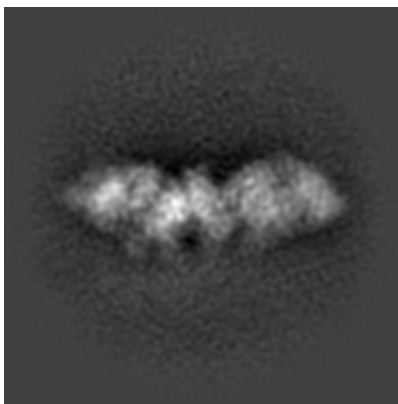
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

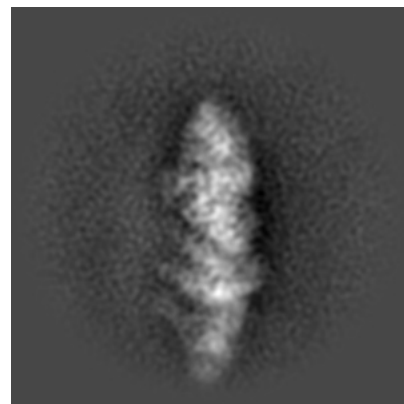
6.1.1 Primary map



X

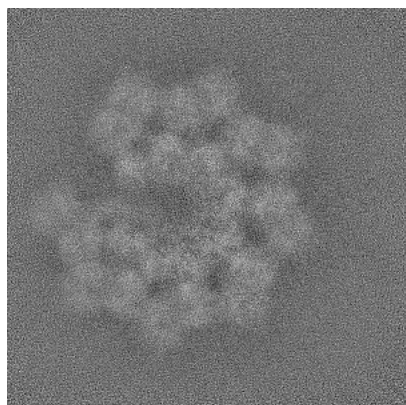


Y

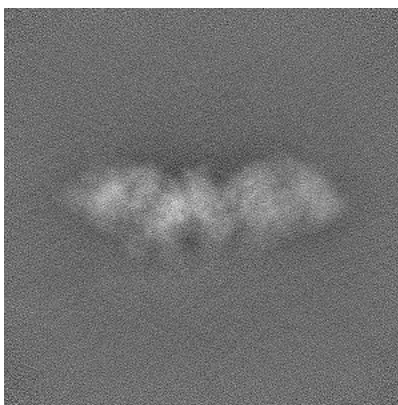


Z

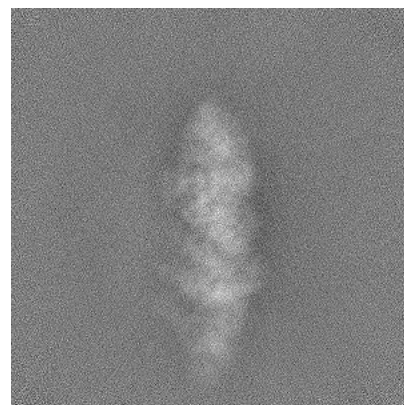
6.1.2 Raw map



X



Y

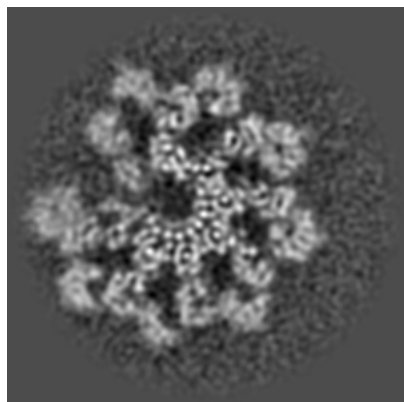


Z

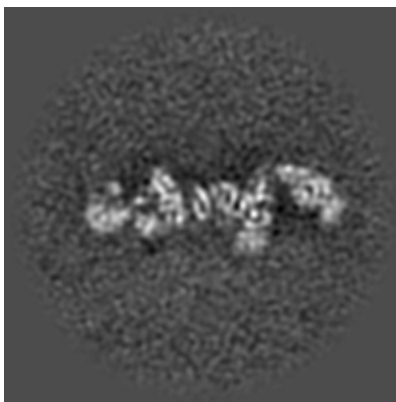
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

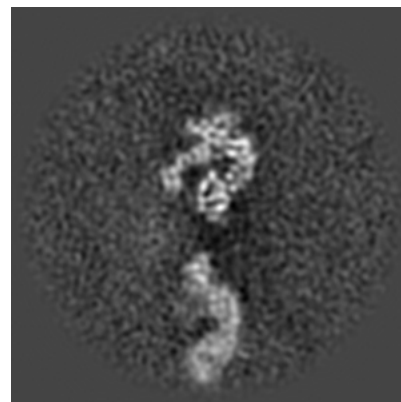
6.2.1 Primary map



X Index: 220

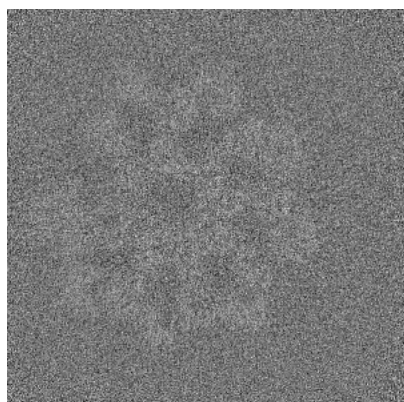


Y Index: 220

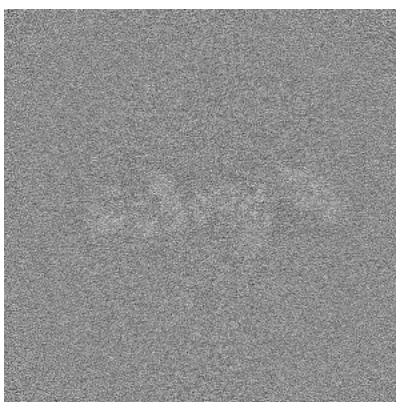


Z Index: 220

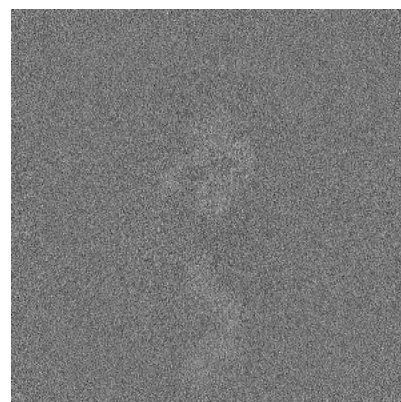
6.2.2 Raw map



X Index: 220



Y Index: 220

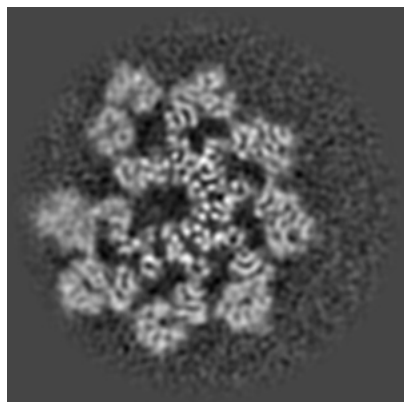


Z Index: 220

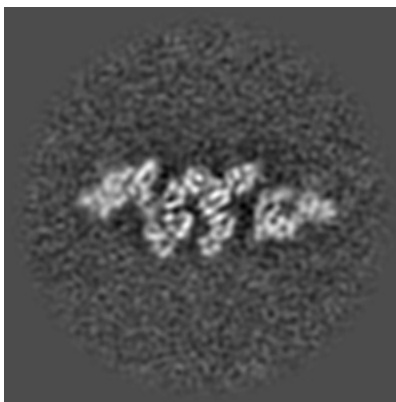
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

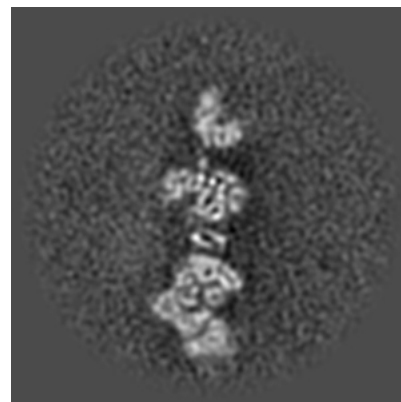
6.3.1 Primary map



X Index: 229

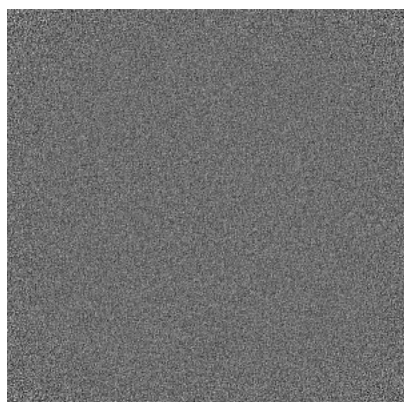


Y Index: 249

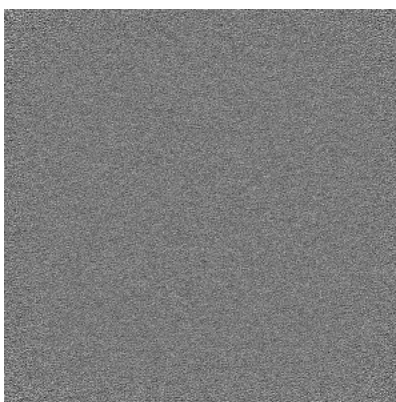


Z Index: 183

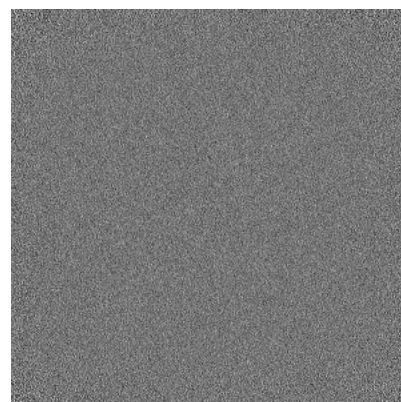
6.3.2 Raw map



X Index: 0



Y Index: 0

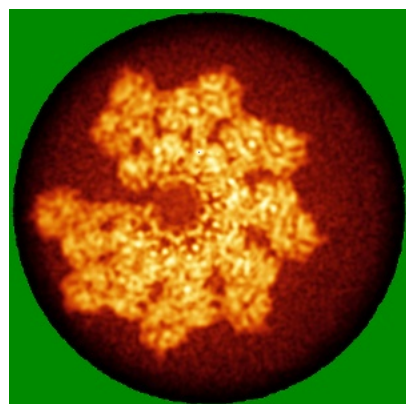


Z Index: 0

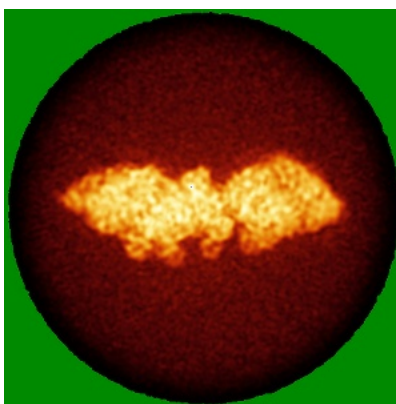
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

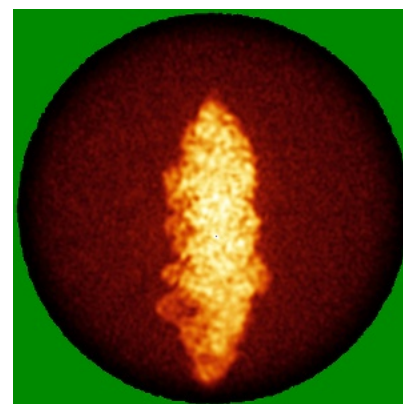
6.4.1 Primary map



X

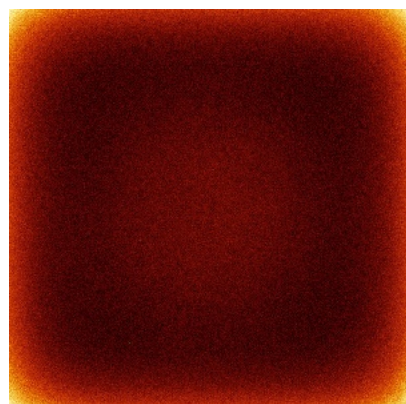


Y

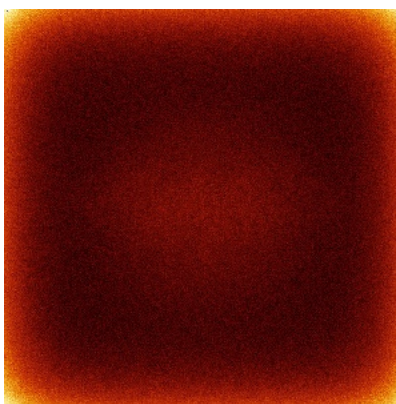


Z

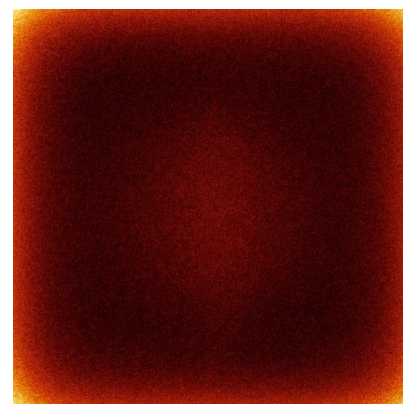
6.4.2 Raw map



X



Y

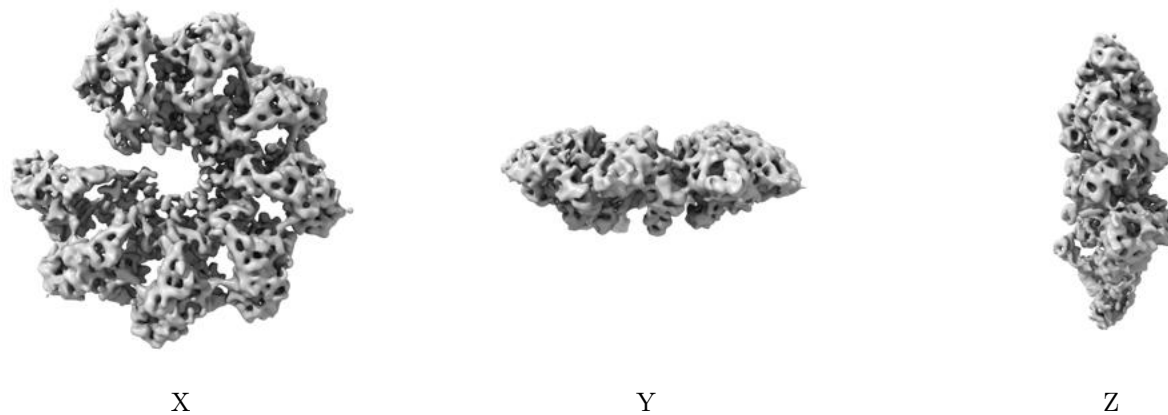


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

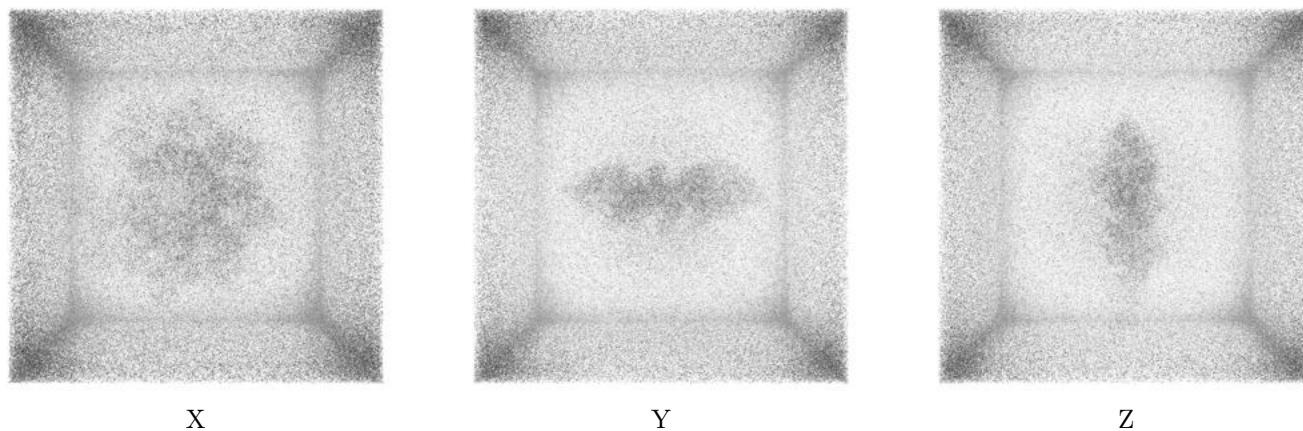
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.18. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

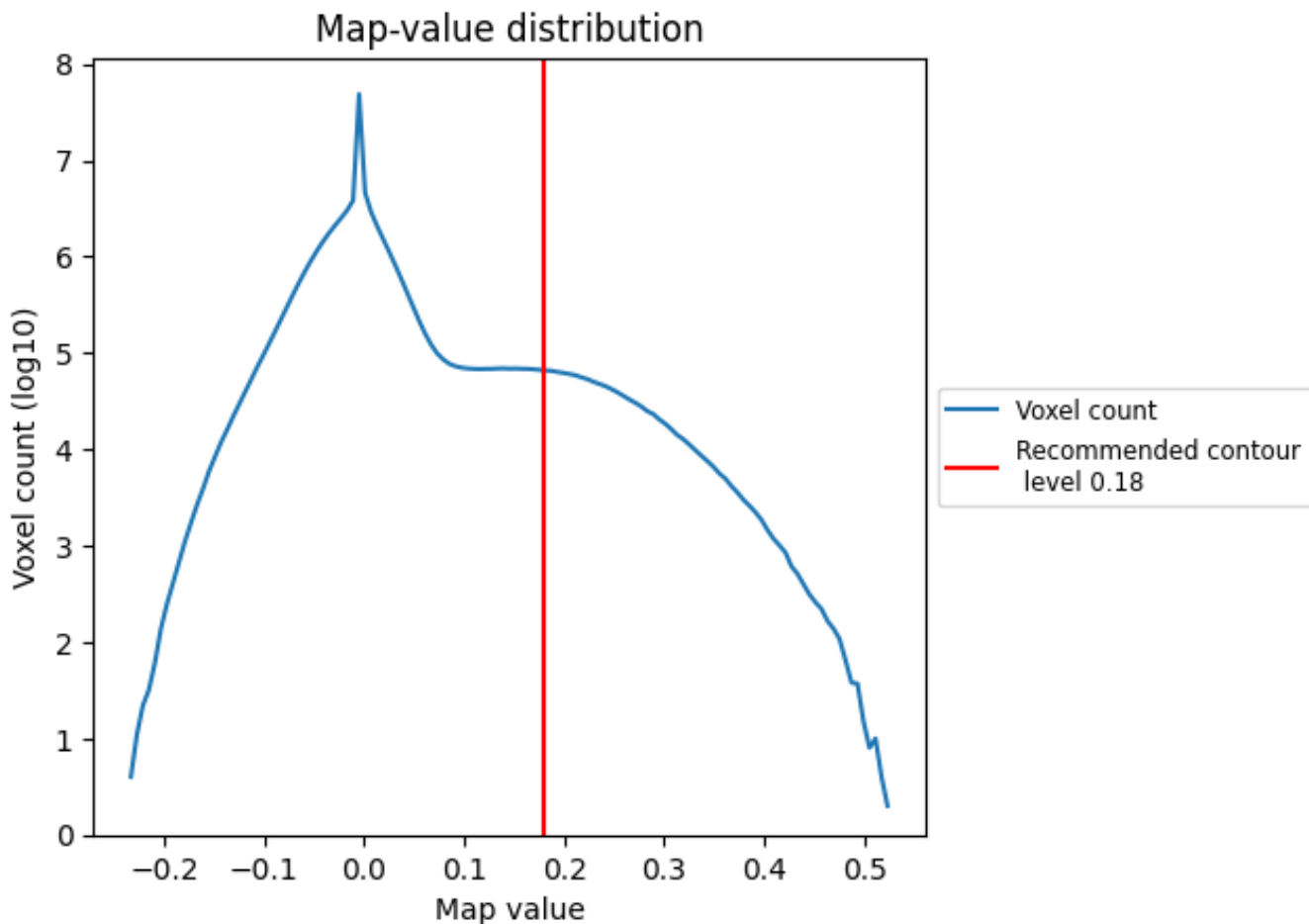
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

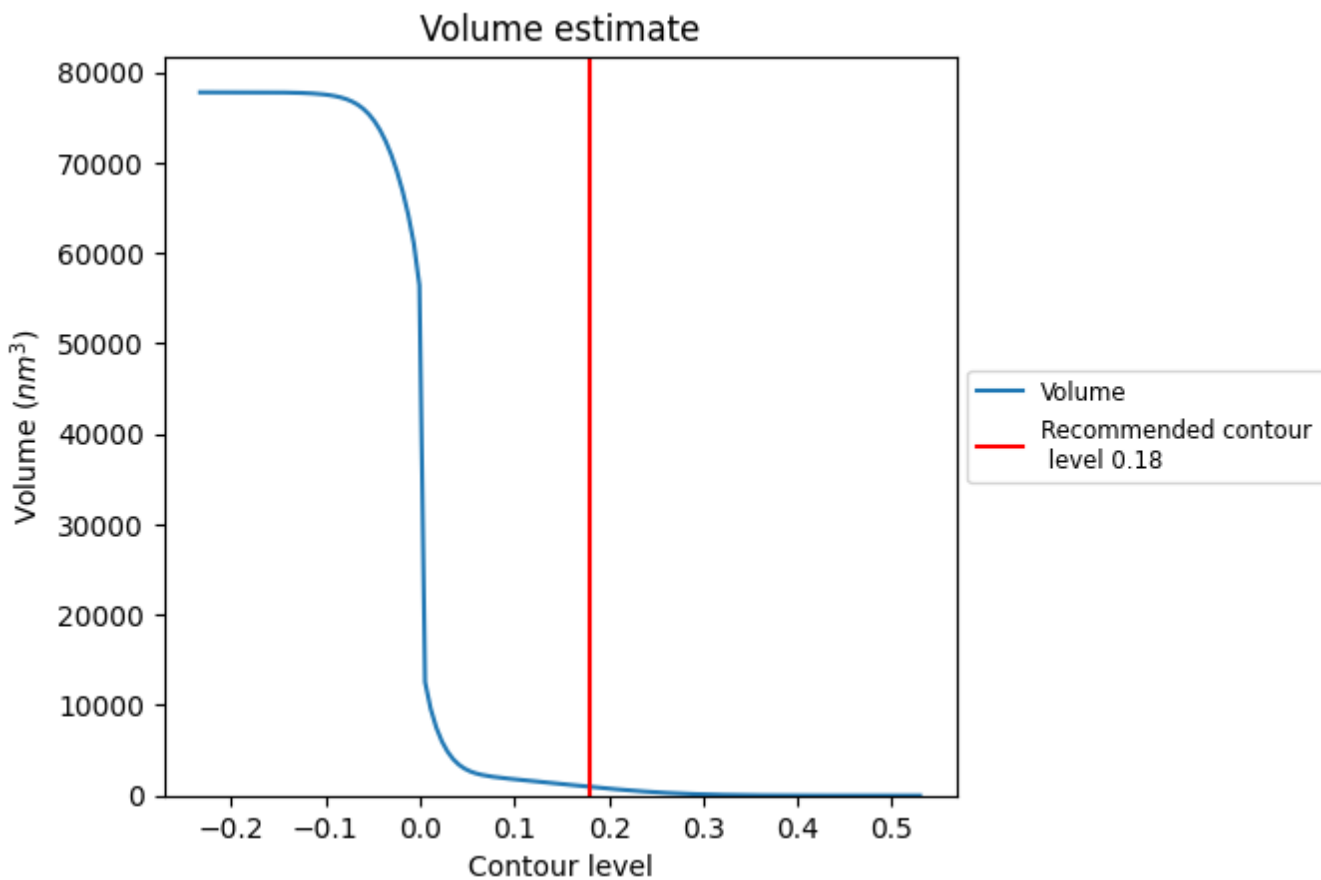
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

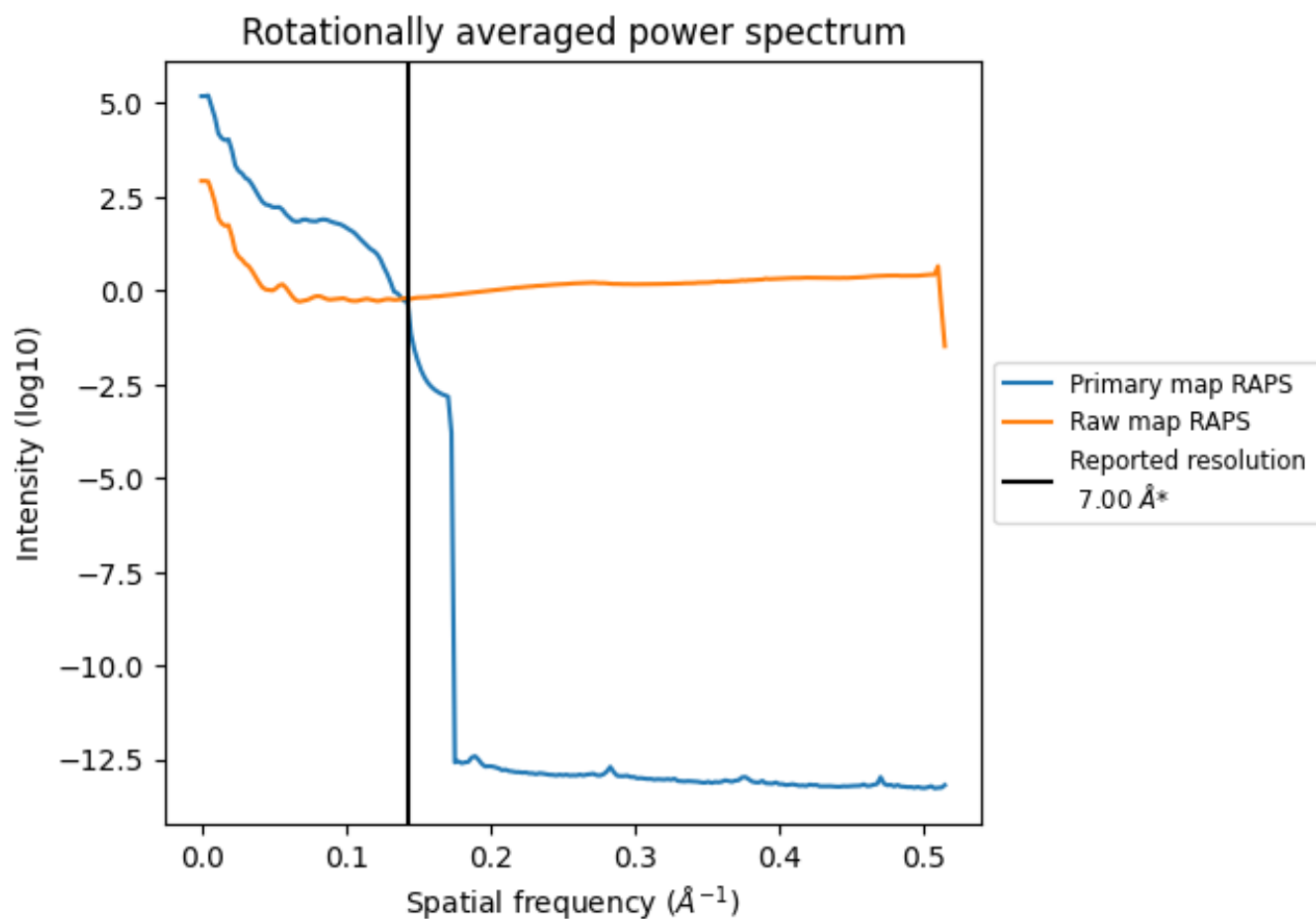
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 968 nm³; this corresponds to an approximate mass of 875 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

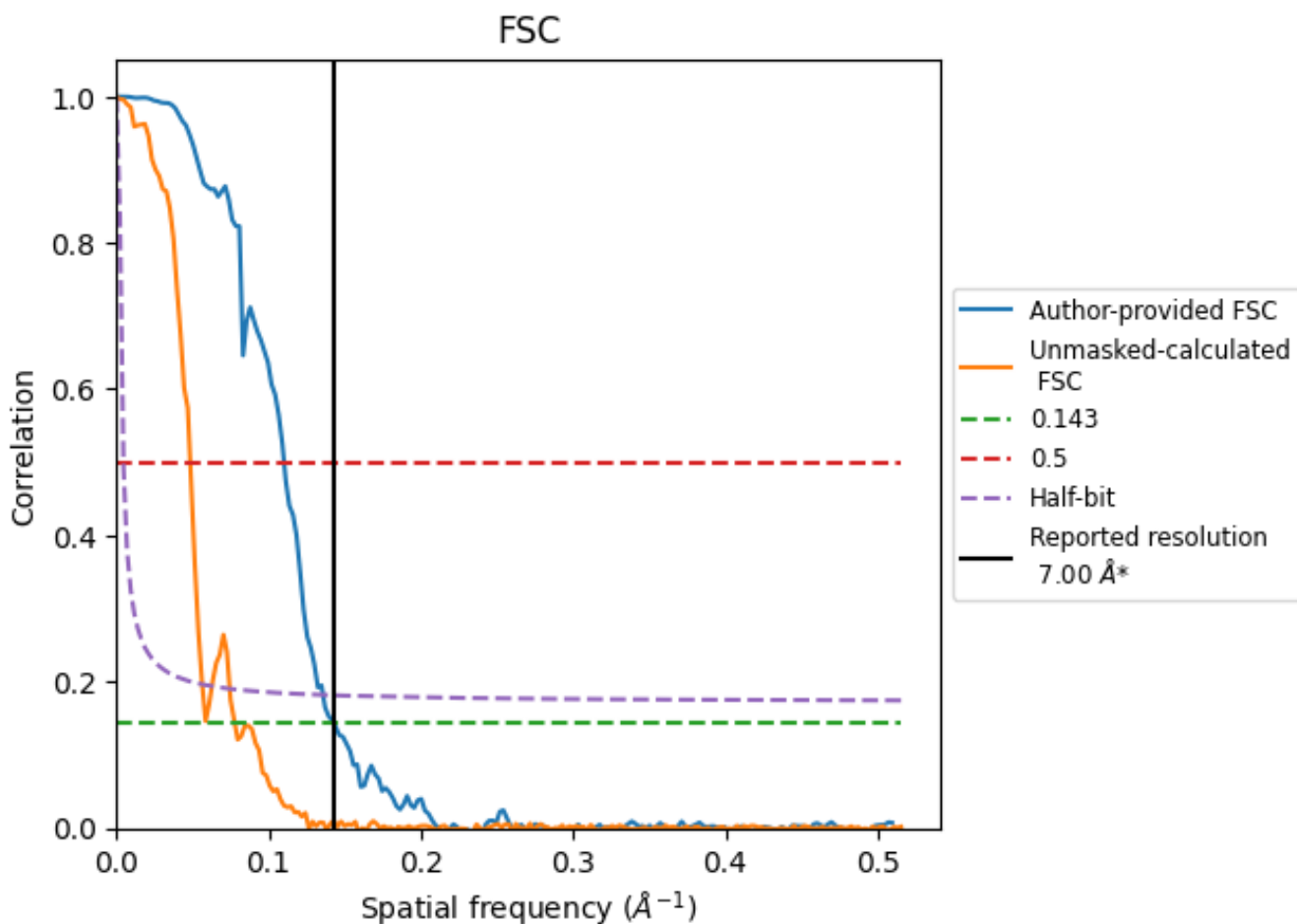


*Reported resolution corresponds to spatial frequency of 0.143 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.143 Å⁻¹

8.2 Resolution estimates [i](#)

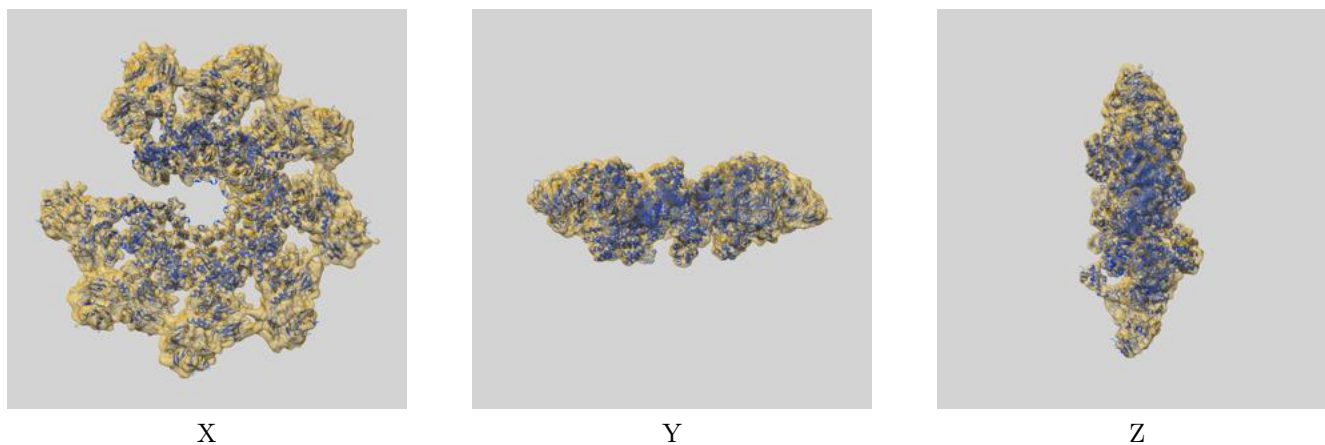
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.00	-	-
Author-provided FSC curve	7.01	9.08	7.37
Unmasked-calculated*	12.87	20.62	17.73

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 12.87 differs from the reported value 7.0 by more than 10 %

9 Map-model fit [i](#)

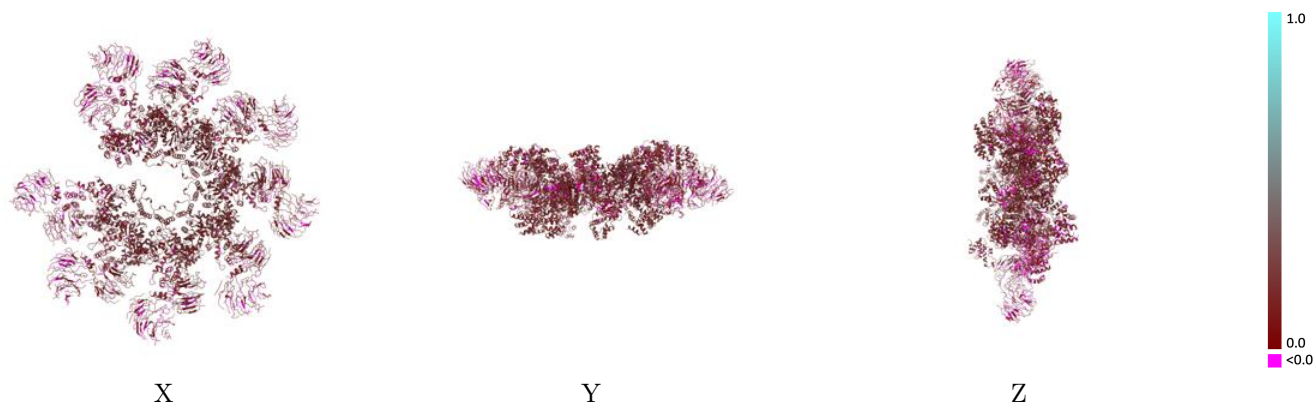
This section contains information regarding the fit between EMDB map EMD-38995 and PDB model 8Y6Q. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



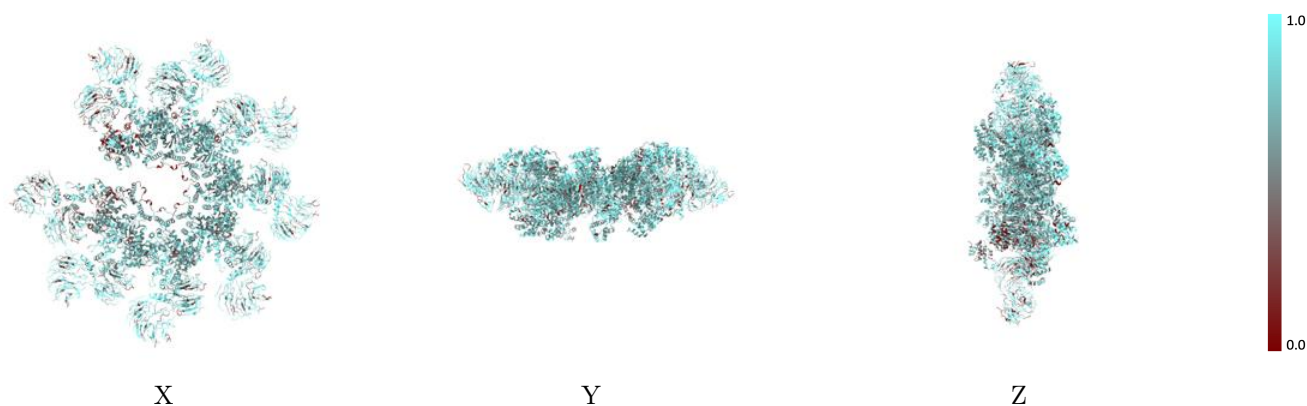
The images above show the 3D surface view of the map at the recommended contour level 0.18 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



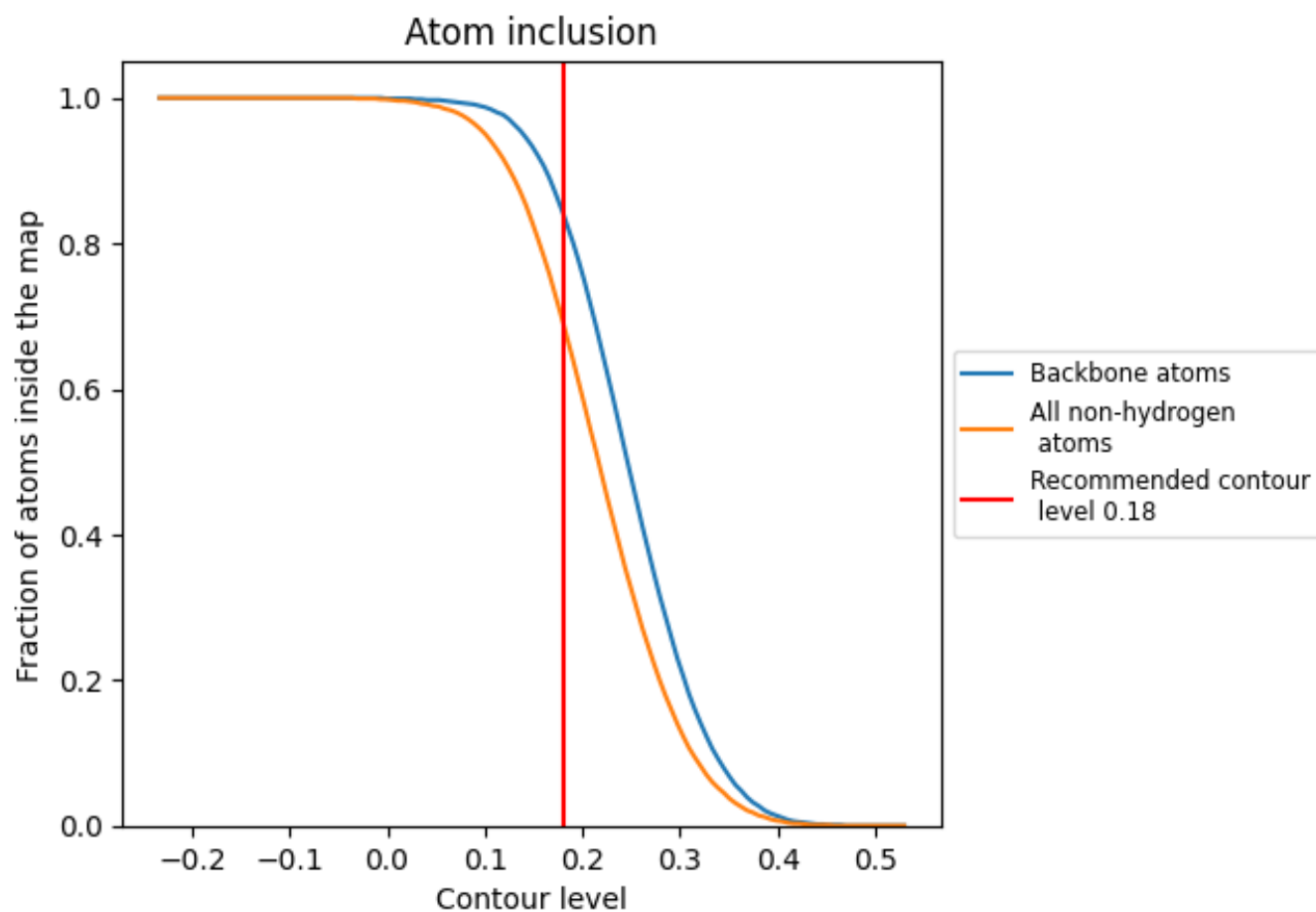
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.18).



































9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 69% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.18) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6920	 0.1540
A	 0.6550	 0.1840
B	 0.6940	 0.1990
C	 0.7000	 0.1890
D	 0.7230	 0.1940
E	 0.7310	 0.1850
F	 0.5310	 0.1670
G	 0.3330	 0.1390
H	 0.5980	 0.1310
I	 0.7150	 0.1540
J	 0.7330	 0.1560
K	 0.7450	 0.1660
L	 0.7130	 0.1590
M	 0.7260	 0.1600
N	 0.7590	 0.1960
O	 0.7210	 0.1570
Q	 0.6240	 0.1260

